

Manufacturers Record

Industry Construction

Reg. U. S. Pat. Office



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Baltimore, Md.
APRIL 9, 1931

Construction Volume Encouraging

As spring advances, the volume of new construction in the South becomes more and more encouraging. During March over \$68,000,000 of construction contracts were awarded, as compared with \$43,000,000 in February. With the close of the first quarter of 1931, the aggregate value of building and engineering contracts was in excess of \$179,000,000, and proposed work reported during that period amounted to more than \$276,000,000. Many of these projects are now under way, but there is still a large carry-over to swell the total in the coming months.

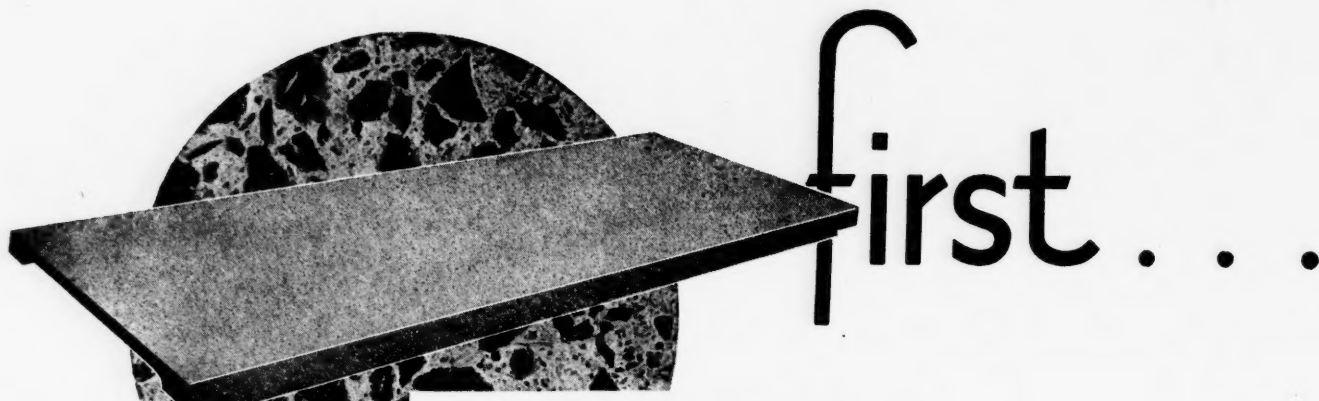
Although the aggregate value of construction awards in the South up to the first of April is slightly below 1930 figures for the corresponding period, when the much lower prices for materials and reduced building costs are considered the actual volume of new construction is ahead of the record last year. Of equal significance is the more general nature of the projects announced by the Manufacturers Record in the past few weeks, since the 1930 gas and oil pipe line extensions, representing an investment of some \$200,000,000, accounted for a large proportion of the South's construction total that year.

Construction Contracts Awarded First Three Months

1931	\$179,192,000
1930	184,242,000
1929	182,396,000
1928	177,815,000
1927	185,321,000

Public work, such as highway developments, inland waterway improvements, etc., continues on a large scale. With a strengthening of residential and industrial building, signs of which are in evidence in the South in recent weeks, activity in the construction industry promises to be on a higher scale than in former years.

Advantages now offered to the prospective builder in reduced material costs and greater service are a strong factor in helping to bring about revival.



in permanence
in fire safety
in freedom from
all maintenance

Every building must have a roof—but why more than one? Do you replace foundations as the years go on? Then why not use similar material—concrete—for your roof?

Featherweight Concrete **INSULATING ROOF SLABS**

represent the spirit of modern construction—more efficient because lighter (as low as 10 lbs. per sq. ft.)—saving steel tonnage in the super-structure—and with new insulating value.

Haydite, with its trapped air cells, brings these great advantages—a revolutionary development that has made this precast concrete roof-deck superior to all other types of roof construction. Send for complete "Catalog and Roof Standards".

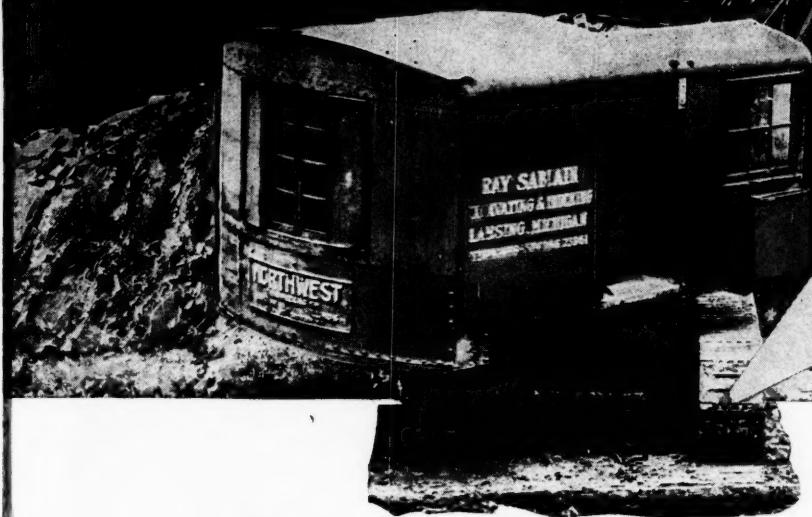
Made, Laid and Guaranteed by

FEDERAL-AMERICAN CEMENT TILE CO.

Executive Offices: 608 South Dearborn Street Chicago
Plants Near CHICAGO · NEW YORK · PITTSBURGH · BIRMINGHAM
FOR OVER A QUARTER CENTURY

Entered as second-class matter at the Postoffice, Baltimore, Md., under the act of March 3, 1879.

DUMP FAST *AND* HIGH *in the* *cuts*



THIS
IS
PAGE
3

*— with the
close-quarter independent crowd*

HERE'S where the Northwest shows its speed—casting to the high places without those losses in time that come with juggling the ordinary crowd and hoist to get the dipper over the truck. With the Northwest Close-Quarter Independent Crowd, a touch of a lever moves the dipper out beyond the boom and over the truck in one smooth, fast operation without dropping the dipper an inch. Here is *reach* with a new speed.

Every contractor should know the details of this Northwest feature. May we tell you?

NORTHWEST ENGINEERING CO.

The world's largest exclusive builders of gasoline, oil burning and electric powered shovels, cranes and draglines

1733 Steger Bldg.

28 E. Jackson Blvd.

Chicago, Ill., U. S. A.

MR 4-9-Gray

AGENTS

351 Whitehall Street,
Atlanta, Ga.

Second at Butler,
Memphis, Tenn.

1221 S. Lamar Street,
Dallas, Texas

1325 Macklind Ave.,
St. Louis, Mo.

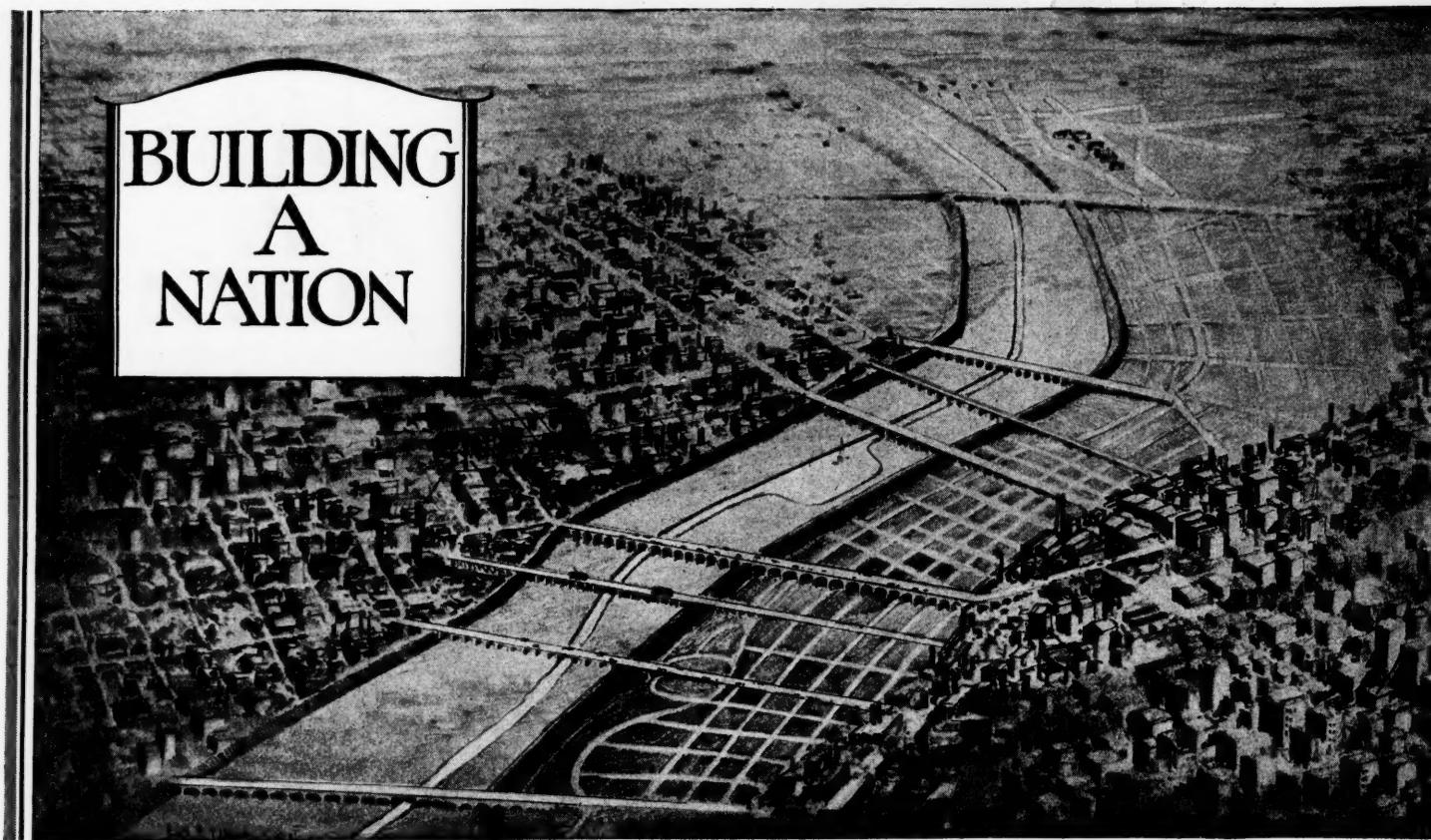
816 Howard Avenue,
New Orleans, La.

15 W. Franklin Street,
Baltimore, Md.

NORTHWEST



MORE ROOMSO DALLAS



Artist's conception of completed Trinity River Reclamation Project. Compare this with view at lower right showing conditions before the reclamation. Drawing furnished through the courtesy of City and County of Dallas Improvement District

CONTRACT for the physical development of this tremendous project was let to the Trinityfarm Construction Company, a Texas organization. This progressive contractor, using the most modern machinery, and working 24 hours a day for over two years, has brought the program to virtual completion well ahead of schedule.

A most important factor in the success of this contract has been the outstanding performance of the General Electric motors, controllers, generators, transformers, switchgear, lightning arresters, and submarine cable required for the operation of the many draglines and of the electric hydraulic dredge. Equally important, too, has been the prompt, dependable, and satisfactory G-E engineering service.

Thus General Electric continues to meet the most exacting requirements of the modern contractor, with dependable equipment, forward-looking engineering, and service as prompt as it is quickly obtainable.

JOIN US IN THE GENERAL
ELECTRIC PROGRAM, BROAD-
CAST EVERY SATURDAY EVE-
NING ON A NATION-WIDE
N.B.C. NETWORK



GENERAL

GENERAL ELECTRIC COMPANY, SCHENECTADY, N. Y.

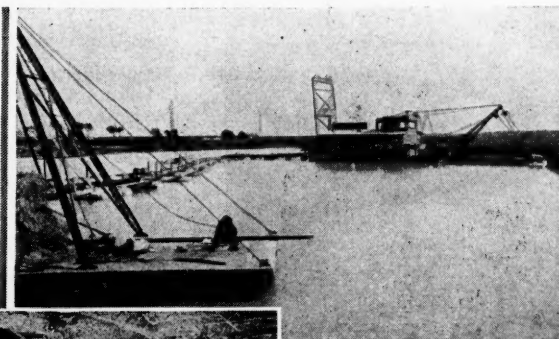
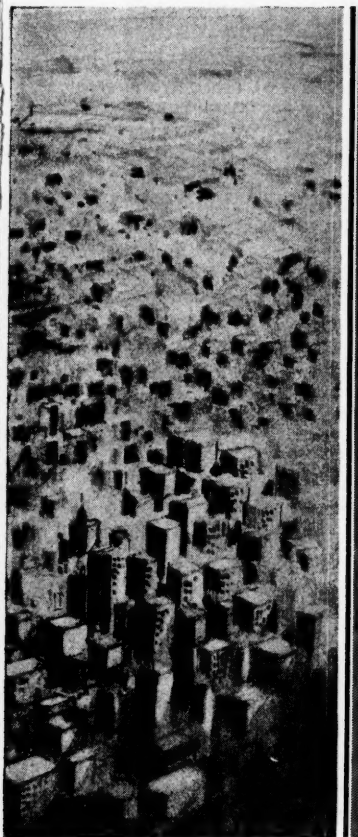
FOR INDUSTRY!

MOVES A RIVER

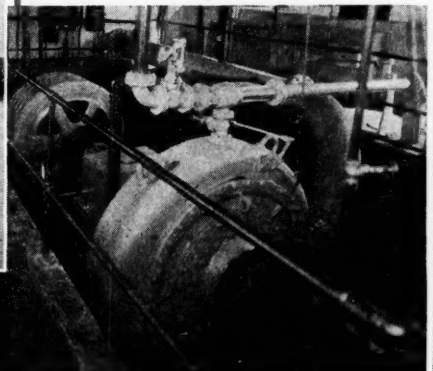
and DALLAS' GREAT RECLAMATION PROJECT ENLISTS G-E MOTORIZED POWER

Under the skyline of Dallas flows the Trinity River, dividing the city from its great residential district, Oak Cliff. The recurring threat of floods in the past made thousands of acres of choice business and industrial properties untenable.

Undaunted by the magnitude of the task, the city and county of Dallas, in conjunction with some seventeen public utilities and railroads, created a Flood Control District, and are now expending more than \$21,000,000 in (1) straightening and moving the river a mile to the west; (2) shortening its length by ten miles; (3) confining it within embankments eight miles long and 2000-ft. apart; (4) spanning it with four concrete and steel vehicular viaducts and three rail bridges; (5) reclaiming thousands of acres of land to meet Dallas' industrial development needs; and (6) dredging two turning basins in anticipation of the canalization of the Trinity River to the Gulf of Mexico.



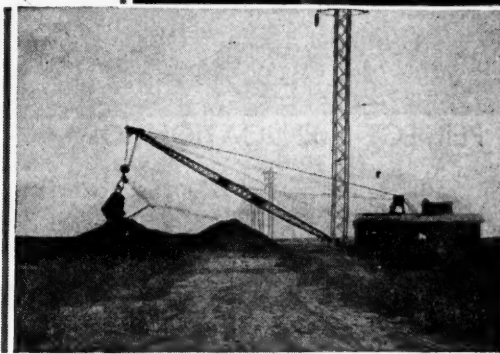
G-E equipped dredge at work in turning basin



800-hp. G-E motor operating the electric dredge



The old and the new river channels.



One of the G-E equipped drag lines

ELECTRIC

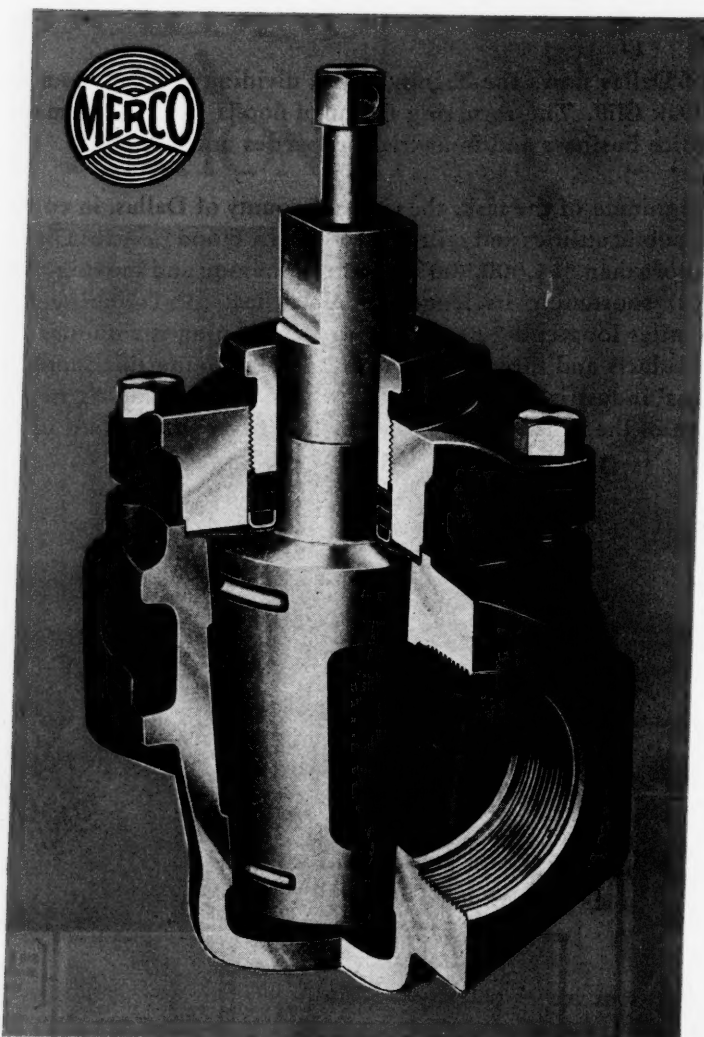
SALES AND ENGINEERING SERVICE IN PRINCIPAL CITIES.

200-446

TESTED

... TO DOUBLE

WORKING PRESSURES



THE PERFECT APPLICATION OF A PRINCIPLE

Ordinary methods of valve making are not tolerated in the manufacture of Nordstrom Valves. For Nordstrom adds RIGID TESTS to quality materials, expert fabrication and advanced principles of design. The combination produces valves unequalled for general, all-around efficiency in every type of service.

For example—Nordstrom Valves are given a hydrostatic test for rupture that amounts to DOUBLE THE RATED COLD WORKING PRESSURE. In addition, all Nordstrom Valves must pass severe air tests for porosity and leakage. These tests assure the utmost in valve service for the operator.

Nordstrom Valves are kept free from leaks. They embody the new, patented hydraulic "Sealdport" lubricating principle. This provides an unbroken ring of special "Merco" Lubricant around both inlet and outlet ports of the valves. If at any time a leak occurs through the valve, the addition of a small amount of lubricant or a turn of the screw will immediately seal off the leakage. Nordstrom Valves are easy to turn because the lubricant exerts an upward pressure on the base of the plug, freeing the plug should it ever be tight.

For the complete story of Nordstrom Valves, ask for latest Catalog. Also ask for information on "Merco" Pipe Joint Compound.



Also "Merco" Flanges

A new type of flanged joint for use with welded pipe lines requiring insertion of valves and fittings for the taking off of outlets. Extremely flexible. Size from 1½" to 10".

NORDSTROM VALVES

MERCO NORDSTROM VALVE COMPANY
SUBSIDIARY OF THE MERRILL COMPANY . . ENGINEERS

Atlanta - Hestley Bldg.	Dallas - Magnolia Bldg.	New Orleans - Maconic Bldg.
Boston - 154 Boylston St.	Detroit - 2942 West Grand Blvd.	New York - 11 W. 42nd St.
Buffalo - Genesee Bldg.	El Paso - 111 So. Virginia St.	Pittsburgh - Clark Bldg.
Charleston - W. Virginia	Houston - Petroleum Bldg.	St. Louis - 317 N. Eleventh St.
Chicago - 176 W. Adams St.	Los Angeles - 1700 West 8th St.	San Francisco - 345 Sansome St.

Agencies:

Denver - Republic Supply Company, 332 Continental Oil Bldg.	Saginaw - Arthur C. Beckert, 112 Durand St.
Honolulu - W. A. Ramsay Co., Ltd., Fort & Queen Streets	Salt Lake City - National Equipment Co., 101 West 2nd South St.
Philadelphia - Brown, Wilson & Company, 1600 Arch St.	Tulsa - B. V. Emery & Company, 216 E. Brady Street

Factory - Oakland, Calif.

Canada - Peacock Bros., Ltd., Montreal, Toronto, Winnipeg, Vancouver. (Also Sydney, N.S.)

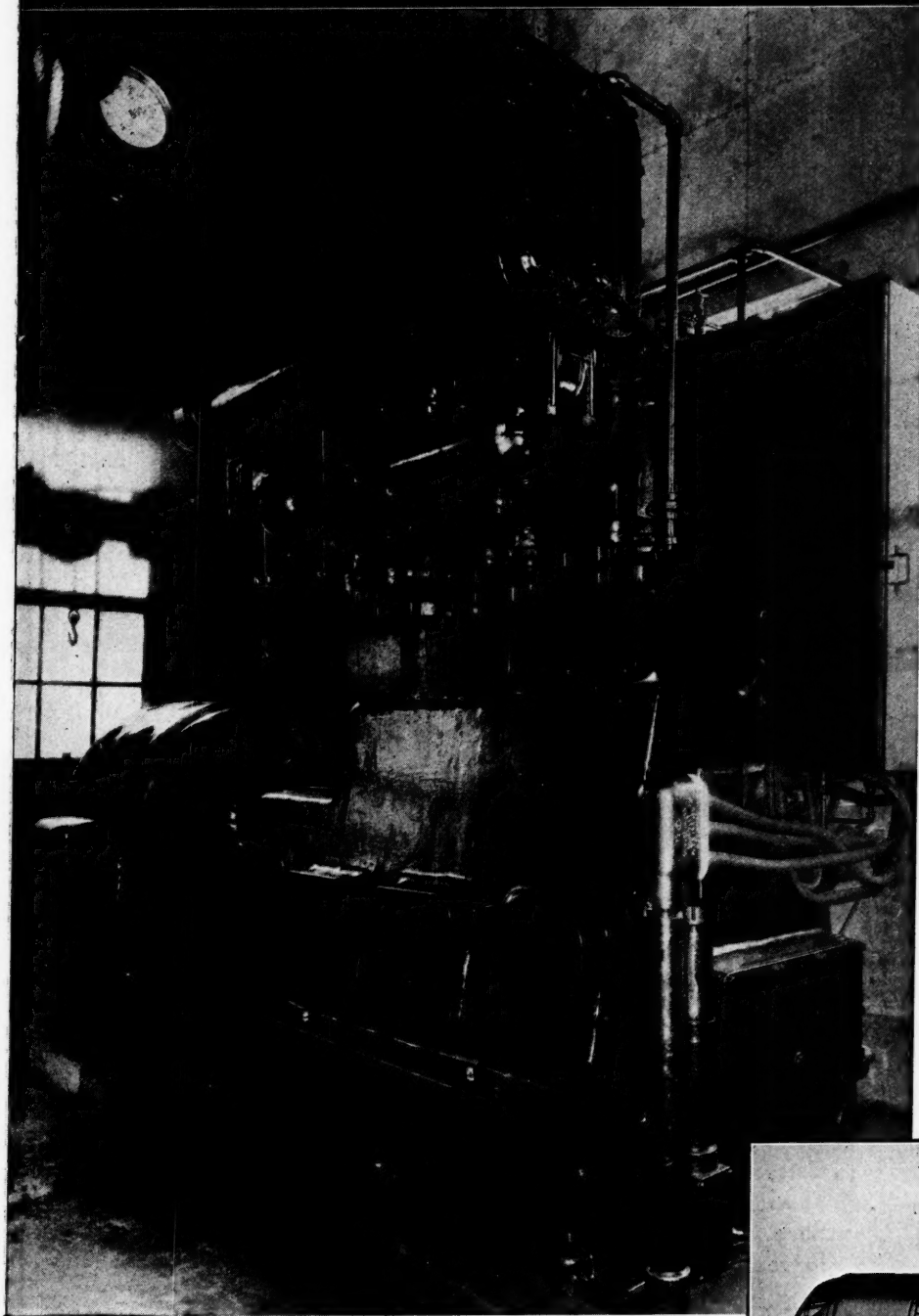
England - Audley Engineering Co., Ltd., Newport, Shropshire.

Buenos Aires, Argentine - General Electric, Soc. Anon., Victoria 618 Esq. Peru.

April 9, 1931

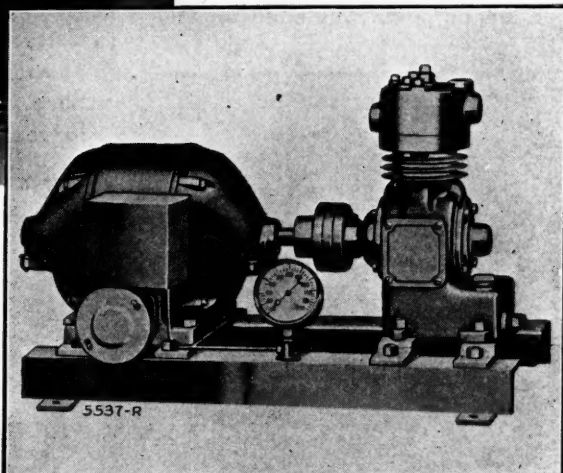
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WESTINGHOUSE-NATIONAL AIR COMPRESSORS



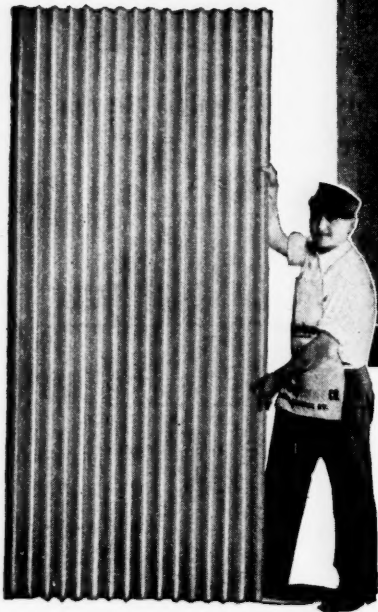
LARGE
and
SMALL
700 Cu. Ft.
2 1-2 Cu. Ft.
for
Every
Pneumatic
Purpose

WESTINGHOUSE TRACTION BRAKE CO.
INDUSTRIAL DIVISION
PITTSBURGH PENNSYLVANIA

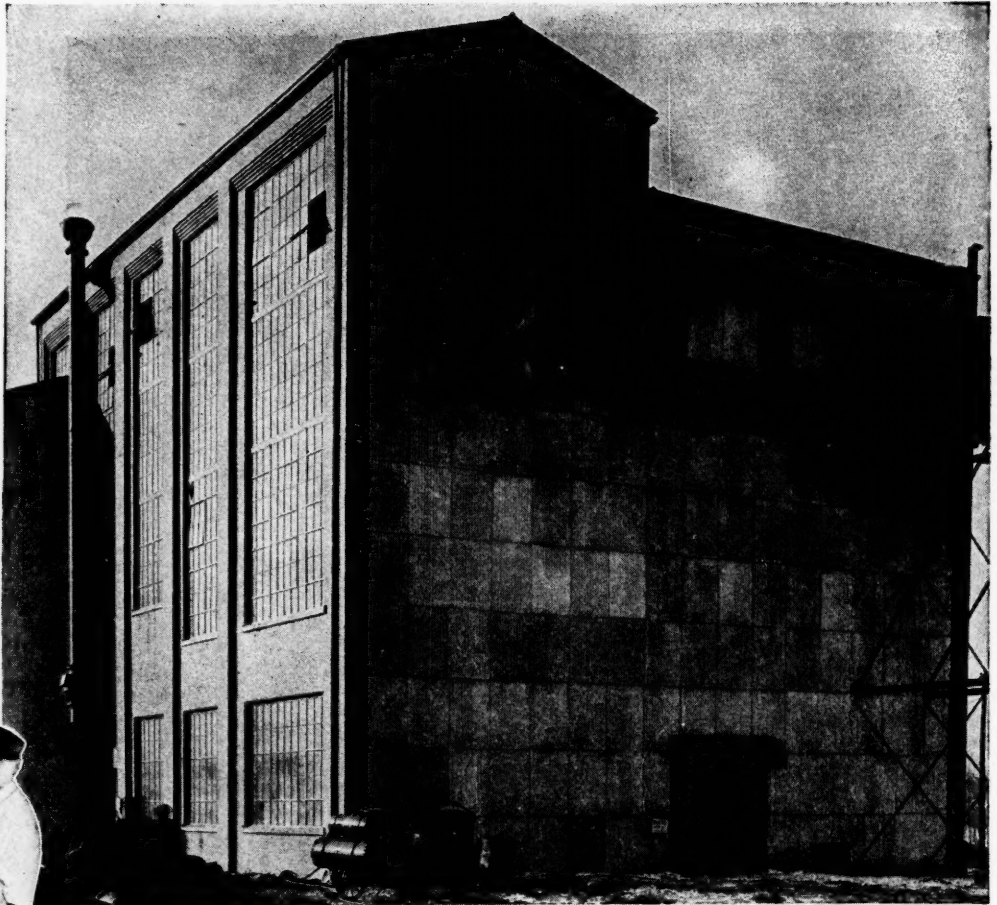


"QUALITY MACHINES FOR QUALITY SERVICE"

Building of The Ohio Fuel
Gas Co., at Toledo O., sided
with Careystone Corrugated



Careystone Corrugated is made in two thicknesses— $\frac{1}{4}$ -in. and $\frac{5}{16}$ -in. and in standard sheets 42 inches wide. Standard lengths 4 to 10 ft.



Careystone Corrugated Cuts Construction Costs Fireproof • Quickly Applied • Permanent

When the building problem calls for speedy, permanent, low cost construction, Careystone Corrugated is *the* definite answer.

Made of asbestos and Portland cement, the sheets are quickly applied over the steel framework at low labor cost. The illustration above shows the comparatively few units required to cover the large area.

Careystone Corrugated will not rust or decay, and is unaffected by fumes. The smooth, stone-like surface never needs painting nor other treatment. Sheets are generally cut to size at the factory, and shipped ready to use for roofs or side walls.

Our engineering department will supply complete data, drawings and estimates on request.

THE PHILIP CAREY COMPANY ✕ Lockland, Cincinnati, O.
Branches in Principal Cities

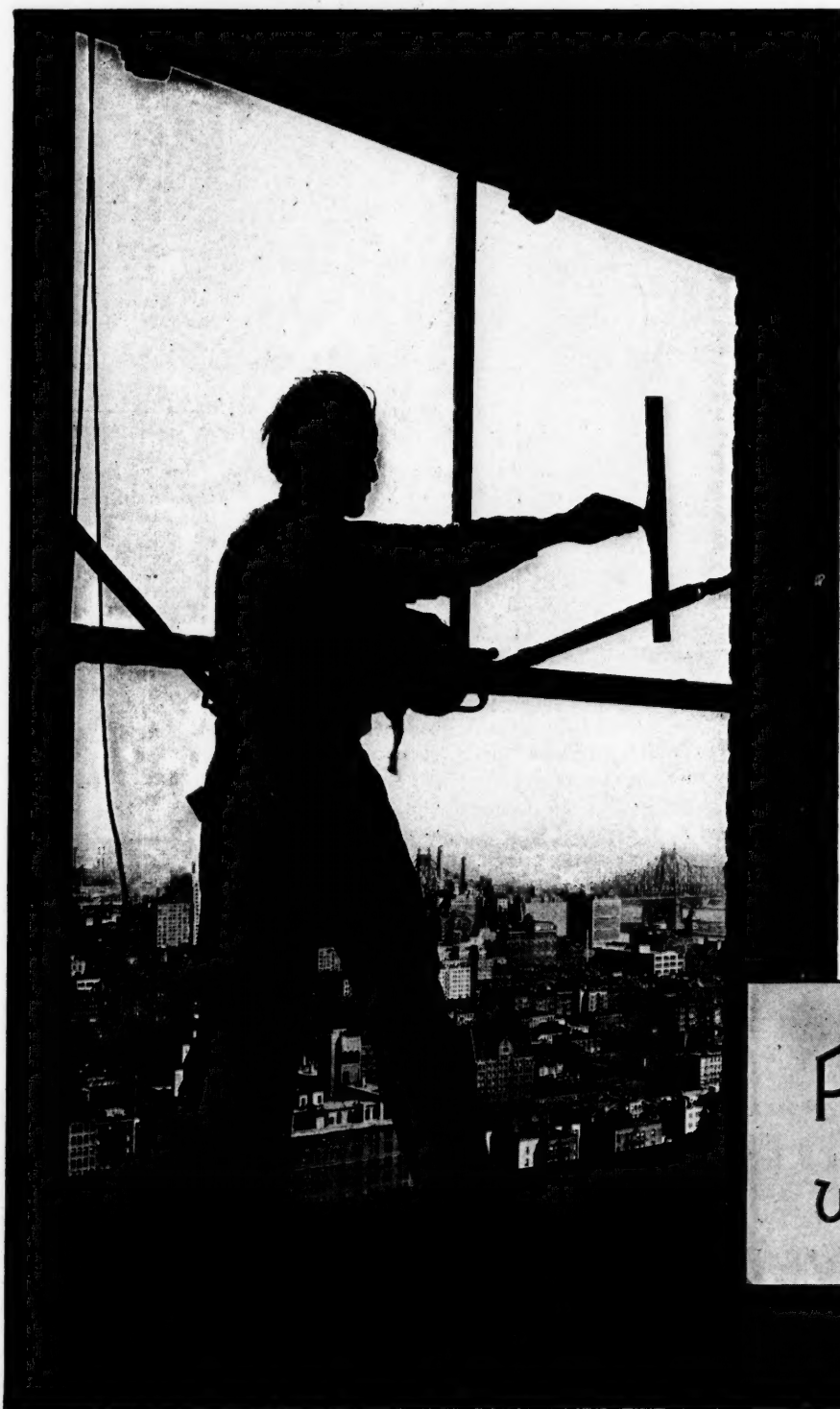
BUILT-UP ROOFS
ASPHALT PRODUCTS
ELASTITE EXPANSION JOINT
WATERPROOFINGS
ROOF PAINTS

Carey
PRODUCTS
EST. 1873

HEAT INSULATIONS
ASBESTOS MATERIALS
CAREYSTONE CORRUGATED SIDING
ASPHALT SLATE SHINGLES
BUILDING PAPERS

Take a tip from the WINDOW CLEANER

He looks *at* glass . . .
as well as *through* it!



Pennvernon Window Glass has a clearness of visibility that approaches the perfection of plate glass . . . But there's more to the story of Pennvernon than that.

Take a sheet of it in your hands—glance along its surface as a window cleaner does. You'll find a remarkable flatness, a new brilliance of finish, a new *quality* that you never expected to find in window glass. And both sides are the same—noticeably free from the old waves, curves, surface burns and other defects.

You'll hardly believe us, after making this test, when we tell you that Pennvernon costs no more than ordinary window glass. But it's true.

Pennvernon is obtainable at the warehouses of the Pittsburgh Plate Glass Company in every leading city. Let us send you our Pennvernon Booklet which contains the absorbing story of how this brighter, flatter glass is made. Address Pittsburgh Plate Glass Company, Grant Building, Pittsburgh, Pa.

PennVERNON
flat drawn
WINDOW GLASS



*The SMALLEST..
FASTEST MODEL
of our FULL
REVOLVING LINE*

Branch Offices
Atlanta, Baltimore, Birmingham
Dallas, Jacksonville, Kansas City
Memphis, St. Louis
**Warehouses
and Service Stations**
Dallas, Jacksonville, Memphis
Agents
Albuquerque, N. M., R. L. Harvill
Co., 225 No. 4th St.
Albany, Ga., Vance Bros., 324 White-
hall St., S. W.
Houston, Tex., R. B. Everett & Co.,
1112-4 Harrisburg Blvd.
Jacksonville, Fla., Burgess Tractor-
Equip. Co., 3 Riverside Viaduct
Miami, Fla., McDonald Tractor-
Equip. Co., 2150 N. W., 1st Court
New Orleans, La., So. States Equip.
Co., 1539 Tchoupitoulas Street,
Bank Bldg.
St. Louis, Mo., Monmouth-Ford
Machinery Co., 1555 Beckman's Bank
Building

A HIGH speed, high quality, 100% con-
vertible model that meets every need for
a small capacity, compact, low-cost excavator.

Readily convertible, by a quick change of
attachments, into shovel, dragline, clam-
shell, trencher, crane, or skimmer scoop.

And look at these speeds: one mile per
hour travel speed, five and a half R. P. M.
swing speed, 125 F. P. M. dragline speed,
161 F. P. M. bucket line speed. P & H pat-
ented high speed clutch control with special

planetary gears to give twice as fast a re-
turn speed. Drums in tandem.

For grading work where speed is essen-
tial, for time and money highway work
where costs must be kept down, for home
and apartment where compactness is
essential, for every kind of a small job.

See the P & H 27 in the field machine
that has the best advertising money of the
industry because it has made the P & H
name known. Send for literature.

HARNISCHFEGGER CORPORATION

Established in 1894

445 1/2 West National Avenue, Milwaukee, Wis.

P & H

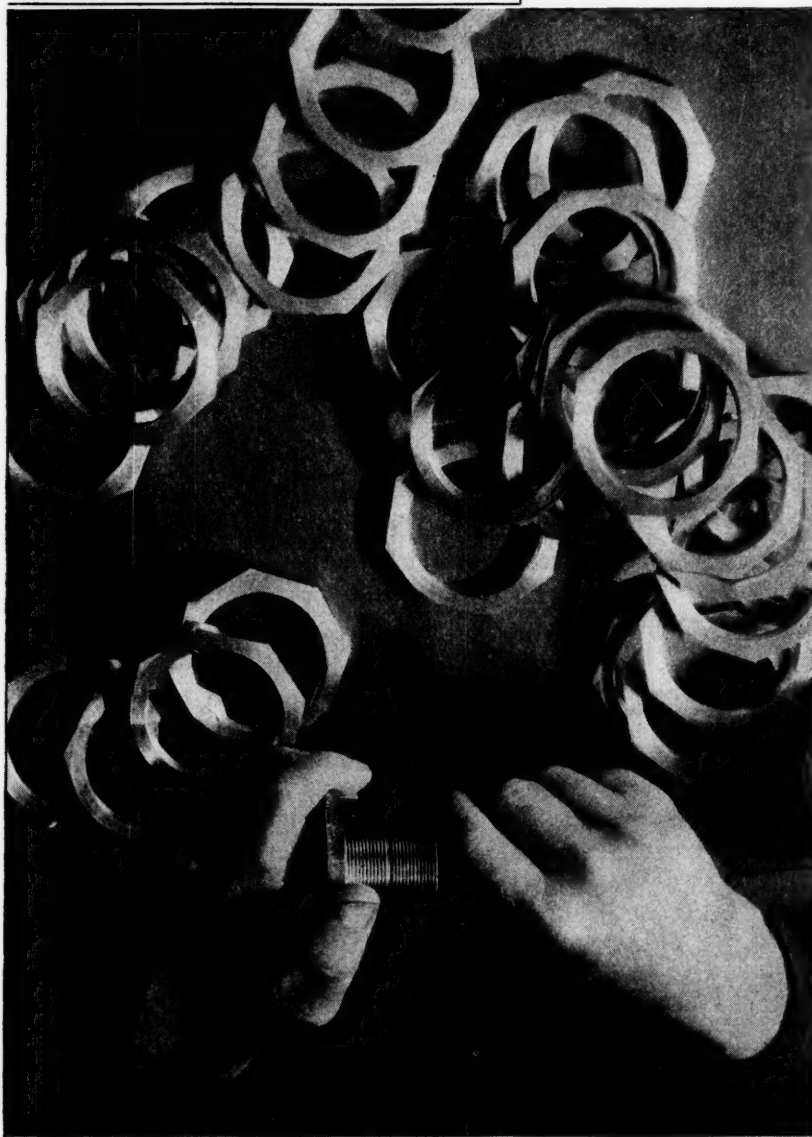
27 STANDARD MODELS

\$3,500.00 TO \$10,000.00

**SHOVELS — DRAGLINES — CLAM-SHELLS —
SKIMMERS — CRANES — TRENCHERS**

FULL REVOLVING MODEL

How a famous manufacturer saved money with R B & W's **PRECISE TOLERANCES**



WHEN a world-famous maker of automotive axles started to purchase from us a nut that must be extremely accurate in size, we received instructions to work to certain tolerances, which left an allowance for lapping to size.

From previous experience, this customer was unable to buy these nuts completely finished to the accuracy and uniformity required, and so had been "lapping out" each nut, a costly procedure, but one which assured the desired result.

After receiving several shipments of nuts from R B & W, made with the lapping allowance, our customer's shop men discovered they were "lapping out" the identical amount from each nut, so closely were we adhering to a definite dimension within the tolerances specified.

Surprised at the uniformity that was being maintained in the R B & W product, the customer finally changed the tolerance specifications to those required in its finished nut, and eliminated the expensive "lapping out" operation in its own plant.

RESULT: Reduced cost of product, with no decrease in quality.

If you have an engineering problem involving the use of bolts and nuts, let us make suggestions based on 86 years of experience in the manufacture of quality products to meet every demand of industry.

RUSSELL, BURDSALL & WARD BOLT & NUT CO.

PORT CHESTER, N.Y.

ROCK FALLS, ILL.

CORAOPOLIS, PA.



*Sales Offices at Philadelphia,
Detroit, Chicago, San
Francisco, Los Angeles,
Seattle, Portland, Ore.*



and *PRESTO!* —it spouts a rod of fiery red

You are in the great Morgan Rod Mill of the Roebling plant. Only a handful of men are present. Yet, here is a veritable bee-hive of activity—and before your eyes is performed a feat of modern industrial magic.

Here, with almost unbelievable swiftness, machines of super-human skill and accuracy transform billets of steel into glowing coils of snake-like rod. Two inches by two and 28 feet long, a square billet is fed into the furnace at one end of the mill—and presto! it is spouted out at the other end, a round rod about 700 feet long and in any desired diameter from .200" to .360".

In making Roebling "Blue Center" Wire Rope the most modern of production facilities are employed in every process. To insure the exceptional quality and uniformity for which it is noted, no stone has been left unturned.

JOHN A. ROEBLING'S SONS COMPANY
TRENTON, N. J. Branches in Principal Cities

WIRE • WIRE ROPE • WELDING WIRE • FLAT
WIRE • COPPER AND INSULATED WIRES AND
CABLES • WIRE CLOTH AND WIRE NETTING



"BLUE CENTER"
STEEL

ROEBLING

WIRE ROPE

American
QUALITY
Steel & Wire Company
WIRE
for Manufacturing

ONE HUNDRED YEARS of wire making experience is back of American Steel & Wire Company products—experience that will solve your most vexing problems quickly and efficiently.

When you require round, flat, square, octagon or other shapes of wire—communicate with us. Prompt delivery and complete engineering service are yours to command.



1831



1931

AMERICAN STEEL & WIRE COMPANY

208 South La Salle Street, Chicago
Pacific Coast Distributors: Columbia Steel Company, Russ Building, San Francisco

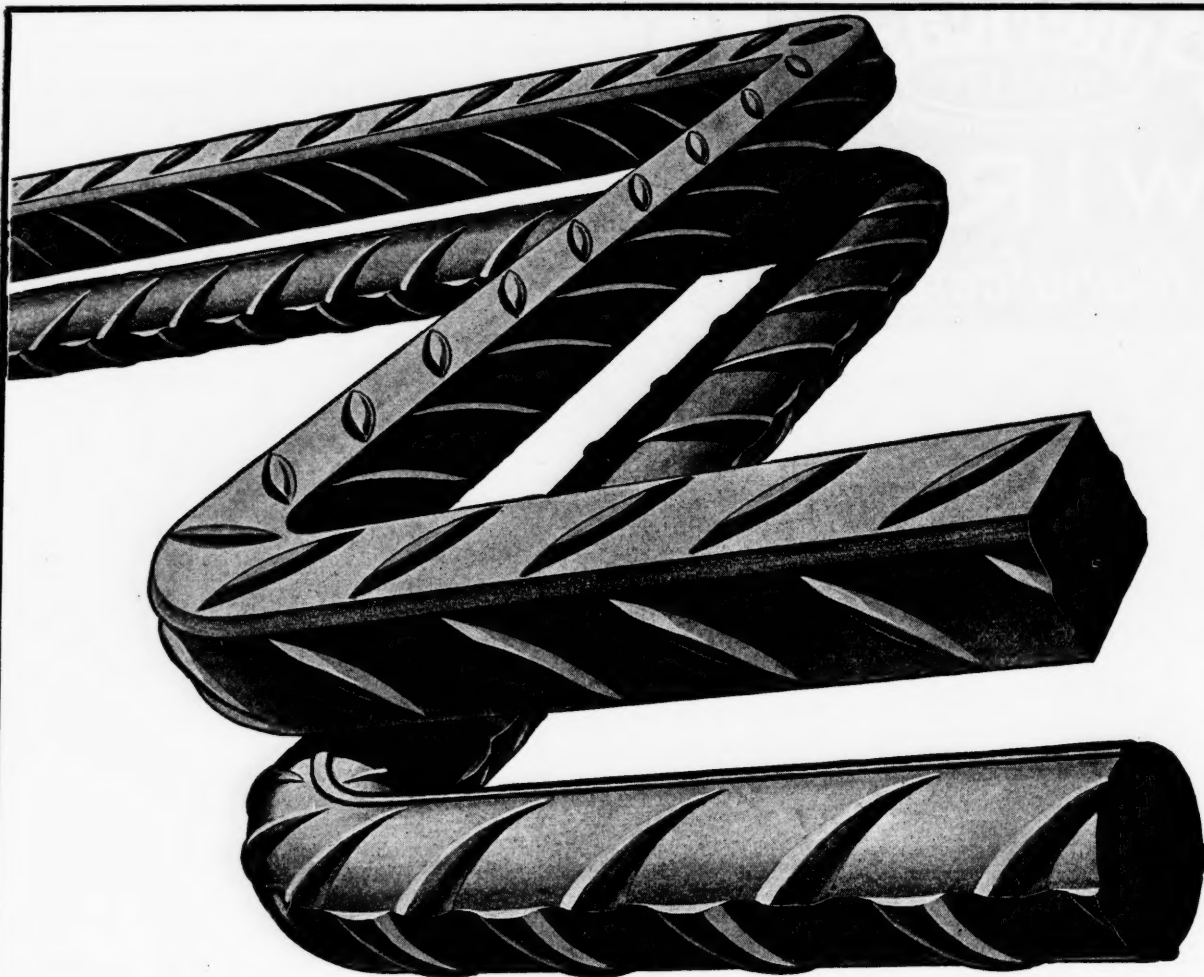
SUBSIDIARY OF UNITED



STATES STEEL CORPORATION

And All Principal Cities

Export Distributors: United States Steel Products Company, New York



Gulfsteel Deformed Bars

will take the most severe bends required
without cracking or breaking

ROLLED from new billet steel, GULFSTEEL reinforcing bars have maximum elasticity and tensile strength. This permits their taking the most severe bends without breaking or cracking. For any concrete job, you can trust GULFSTEEL Bars to do the reinforcing job better. Let our engineering department help you with your reinforcing problems.



REG. U. S. PAT. OFF.

GULF STATES STEEL COMPANY
BIRMINGHAM, ALABAMA

GULFSTEEL DEFORMED REINFORCING **BARS**



THIS .. THE STEEL AGE

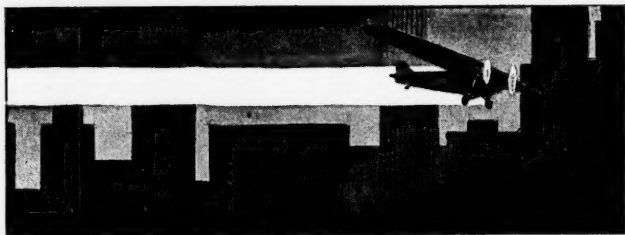
THE graceful arch of a bridge fades into the mists of the far shore. A mammoth building climbs upward . . . forty, fifty, sixty, eighty-five floors. The streets are a mad rush of motor traffic. Under the streets hundreds of trains rocket through an intricate maze of tracks and tubes. All about is the clatter and hum of machinery—the incredible machinery of mass production. The air vibrates with the drone of an aeroplane.

It is the age of Steel. It is Steel that forms the gigantic span of the Kill van Kull Bridge. It is Steel that carries the Empire State Building to the tip of the 200' mooring mast atop its eighty-five floors. It is Steel that



builds the automobile—that bores roadways beneath the earth's surface. The machine is made of Steel and uses Steel as its fodder. Steel has aided man in his conquest of the air. Every phase of human activity owes its progress to Steel, the basic factor of modern civilization.

Inseparably linked with the development of Steel is the name "Carnegie". For nearly three-quarters of a century, Carnegie Steel Company has engaged in the manufacture of Steel. The knowledge accumulated during this time and the extensive mechanical, metallurgical and engineering resources of this company are yours to summon.



CARNEGIE STEEL

108

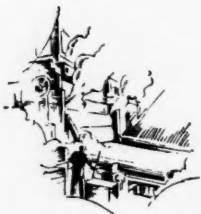
CARNEGIE STEEL COMPANY, PITTSBURGH, PA. - *Subsidiary of UNITED STATES STEEL CORPORATION*

WORKABILITY

Characterizes

YOUNGSTOWN

SHEETS



FABRICATORS of sheet steel products—men who work with sheet steel—are quick to appreciate the working qualities which distinguish Youngstown steel sheets from ordinary steel sheets. The ease in their forming, stamping, drawing, seaming, pressing, bending and welding are instantly apparent to the experienced fabricator, and account for their widespread use in all types of sheet steel fabrication.

Youngstown products are distributed by leading jobbers everywhere. If you would like more complete information on Youngstown steel sheets or if you are faced with sheet steel problems, write to any of the offices listed below or direct to—

THE YOUNGSTOWN SHEET AND TUBE CO.

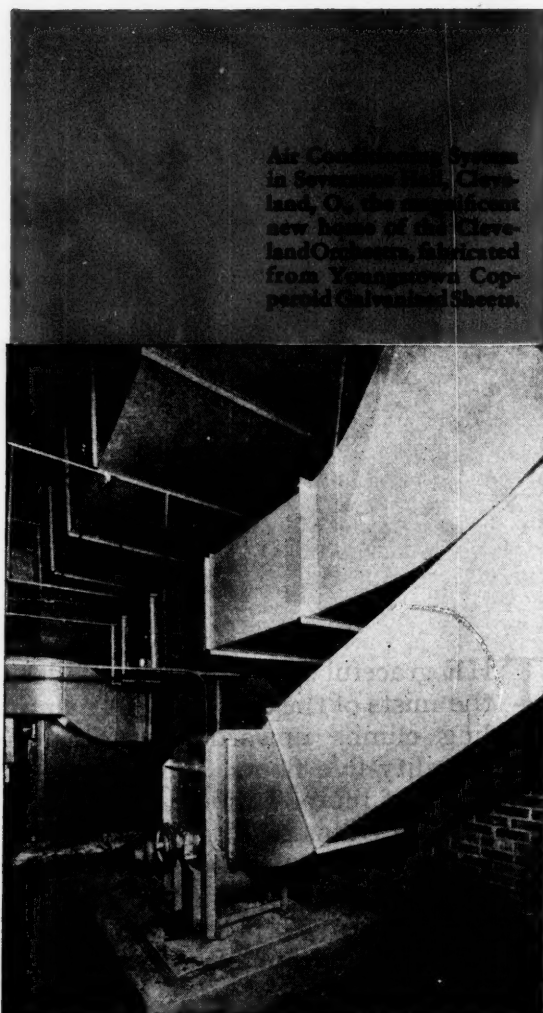
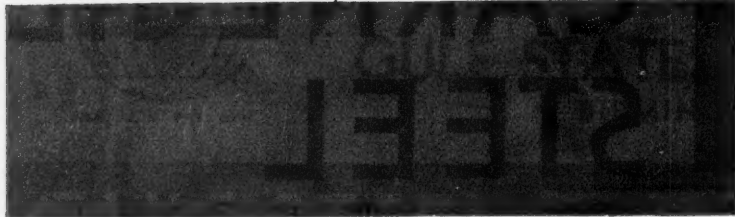
One of the oldest manufacturers of copper-steel, under the well-known and established trade name "Copperoid"

General Offices: YOUNGSTOWN, OHIO



YOUNGSTOWN

GALVANIZED SHEETS PROTECT • SAVE WITH STEEL



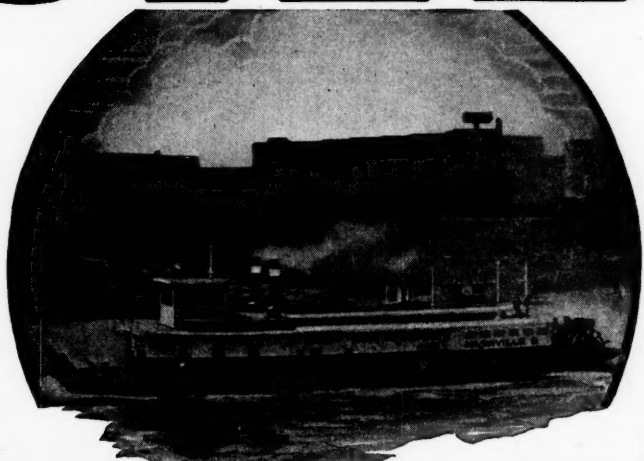
District Sales Offices:

ATLANTA • • • Healey Building	NEW ORLEANS • • • Hibernia Building
BOSTON • • • • • Chamber of Commerce Building	NEW YORK • 30 Church Street
BUFFALO • Liberty Bank Bldg.	Hudson Terminal Building
CHICAGO • • Conway Building	PHILADELPHIA • • • Franklin Trust Building
CINCINNATI • • • Union Trust Building	PITTSBURGH • • • Oliver Bldg.
CLEVELAND • Terminal Tower Building	SAN FRANCISCO • • • 55 New Montgomery Street
DALLAS • • • Magnolia Building	SEATTLE • • • Central Building
DENVER • Continental Oil Bldg.	ST. LOUIS • • • Louderman Bldg.
DETROIT • • • • • Fisher Building	YOUNGSTOWN • Stambaugh Building
KANSAS CITY, MO. • • Commerce Building	
LOS ANGELES • 3000 Santa Fe Avenue	
MEMPHIS • • • 42 Keel Avenue	
MINNEAPOLIS • Andrus Bldg.	

REPRESENTATIVE:

The Youngstown Steel Products Company, Dashwood House, Old Broad Street, London, E. C. Eng.

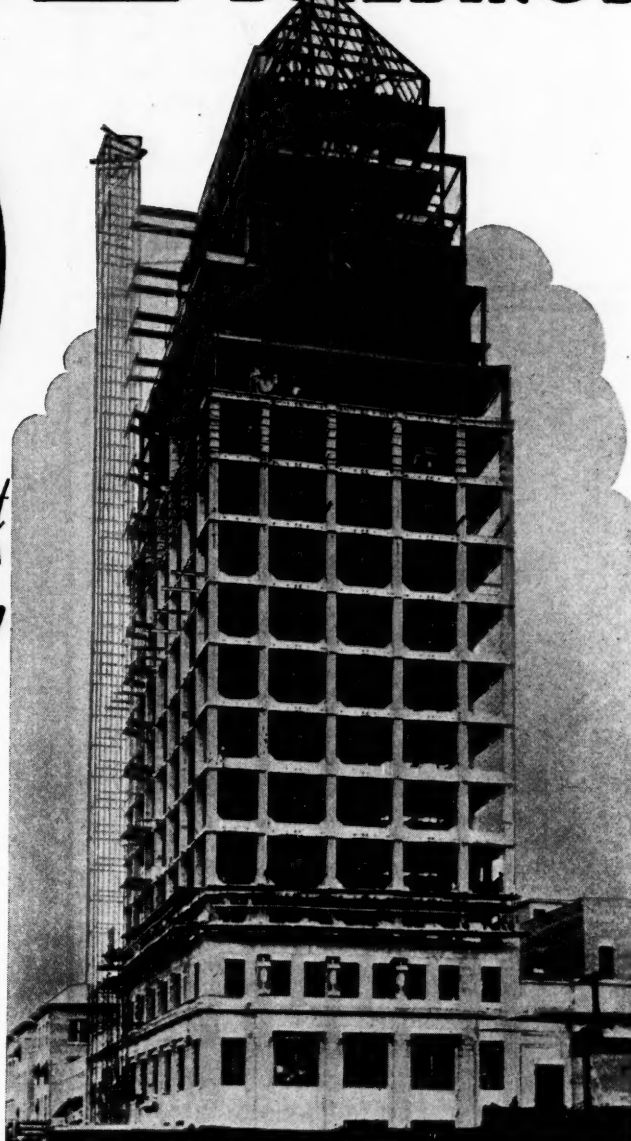
STEEL FOR BOATS BRIDGES OR BUILDINGS



Wherever there is a use for steel-Let
TENNESSEE

figure on your requirements. Quality products backed by careful inspection—prompt shipments, with intelligent cooperation through understanding of the customer's needs—these are some of the reasons which make Tennessee a desirable source of supply.

Products: Structural Shapes, Plates, Bars and Small Shapes, Sheets (Blue Annealed, Black and Galvanized), Rails and Accessories, Forgings, Castings, Semi-Finished Products, Pig Iron.

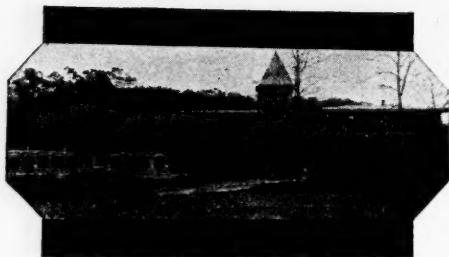


Tennessee Coal, Iron & Railroad Co.

General Offices: Brown-Marx Bldg., BIRMINGHAM, ALA.

Subsidiary of United States Steel Corporation

MAY COST REDUCTION PLAN



The plant of the N. H. Hill Brass Co., East Hampton, Conn., where the George S. May Inc. Cost Reduction Plan proved so completely satisfactory.

... In Face of 1930 Business Depression Reduces Labor Costs 17% Raises Workers' Pay 20%

W. N. Hill, Vice-President, N. H. Hill Brass Company, East Hampton, Conn., gives these facts:

"The May Plan (installed a year ago without in any way interfering with our production) has effected a direct labor saving of 17%.

"Waste has been reduced to a minimum.

"The May Bonus Plan completely changed our rates—equalizing employees' wages, with an average increase of approximately 20%, resulting in a general increase of production of about 10%.

"We feel that the May installation was of the utmost value to us during the unfavorable conditions of the past year."



The quotations used in this advertisement are from a Gould Report on the N. H. Hill Brass Co., East Hampton, Conn., and they are guaranteed authentic. More detailed reports and data on other installations may be had on request. Visualize what the application of these methods to your problems would mean to you.

GEORGE S. MAY INC.

Cost Reduction / Sales Analysis / Cost Systems / Appraisals

CHICAGO
2600 North Shore Avenue

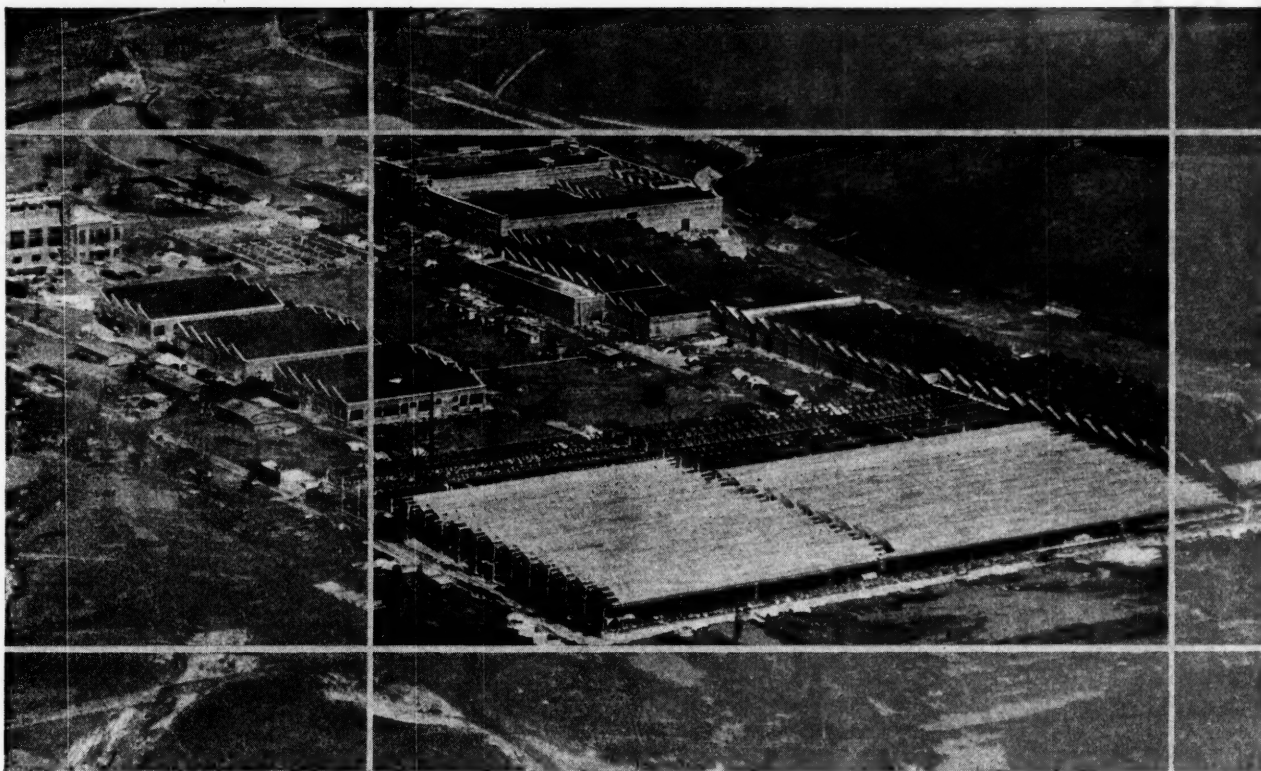
NEW YORK
122 East 42nd Street

LOS ANGELES
215 West Sixth Street

TORONTO
18 Toronto Street

CANADA: GEORGE S. MAY LIMITED





Rayon Plant, American Enka Corporation, Asheville, N. C. H. K. Ferguson Co., Cleveland, Engineers and Builders. We furnished the steel work, over 5000 tons

A LANDSCAPE GONE INDUSTRIAL

SO many acres of countryside, so many feet of foundations, so many tons of steel, brick and roofing, all shaped to a definite plan and the stage is set for an industrial romance.

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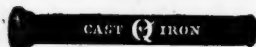
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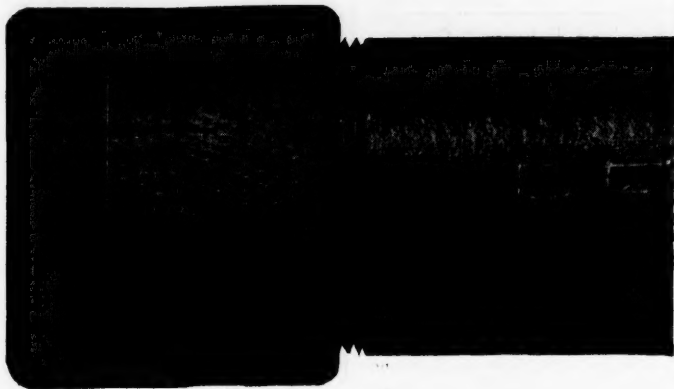
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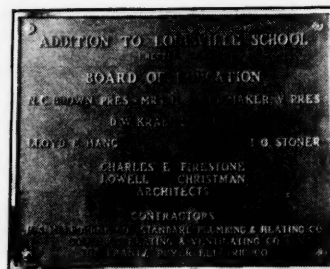
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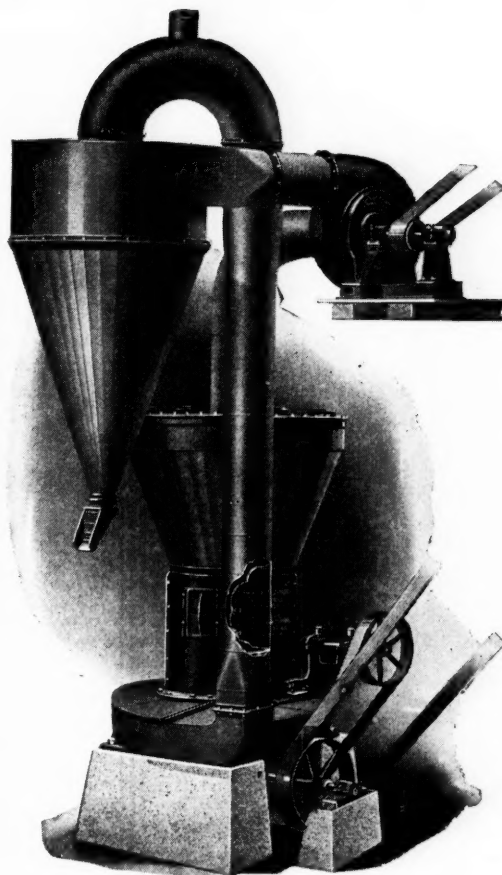
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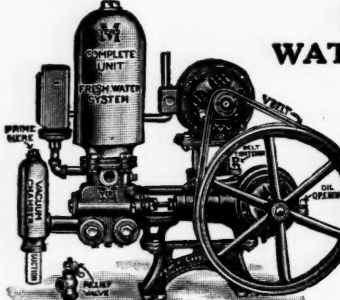
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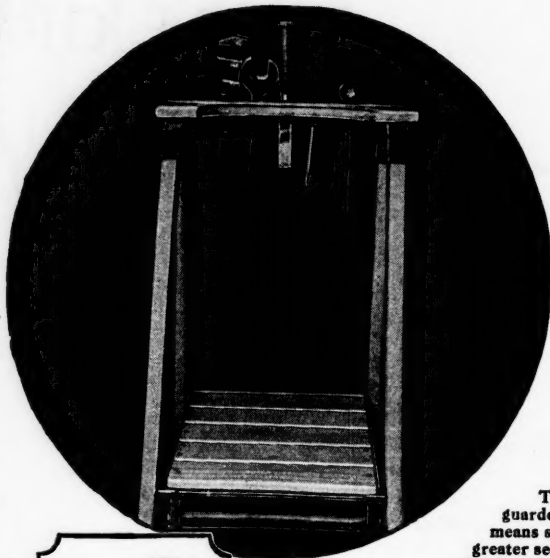
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Vol. XCIX No. 15 }
Weekly }

BALTIMORE, APRIL 9, 1931

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South's Wealth \$80,979,000,000

RECENT estimates by the National Industrial Conference Board placed the wealth of the United States at \$361,837,000,000, as of 1929. Of course no accurate figure of the value of property in the United States is available and in all probability the wealth of the country is much higher, but by establishing a definite amount computed from some of the major items that go to make up such a total we at least can gain some idea of the value of our material assets measured in current dollars. Allowing for reduced inventories and the drop in dollar values of real estate under the depression of 1930, there is comfort in knowing that as a nation we are still far from the poorhouse.

No inventory of the physical wealth of the country has been undertaken since 1922, when the Census Bureau collected and compiled fundamental data on the subject. It sought to ascertain the value at current prices of land, buildings, equipment and all physical forms of personal property. At that time the Census Bureau reported the wealth of the United States at \$320,803,000,000. Even that sum could not be claimed as the actual value of all property nor include the intangible wealth of the nation. In seven years, however, based on the calculated rate of growth, the nation's wealth increased by more than \$41,000,000,000.

In computing its total the Conference Board first made comparable the estimates put out by the Census in 1912 and 1922 by reducing the amounts distributed by the states to their equivalents at the prices of 1913, or in 1913 dollars. From the figures thus obtained the annual rate of progress was computed for the interval of 1912 to 1922, and by means of this figure estimates were made of the wealth in 1913 dollars for the years intervening between 1912 and 1922. On the assumption that since 1922 wealth has increased at the same annual rate, corresponding estimates were made for the years after 1922. The figures so obtained were then transformed into current dollars by multiplying them by the index of wholesale prices.

In the Conference Board's total estimate for 1929 there was included \$6,808,000,000 of non-distributable

items by states, such as the value of naval ships, privately owned waterworks and gold and silver coin and bullion. The total wealth distributed by states, therefore, was \$355,029,000,000 in 1929, as compared with \$353,530,000,000 estimated in 1928; \$314,700,000,000 in 1922 and \$183,000,000,000 in 1912.

Estimates of National Wealth, 1912-1929

Compiled by National Industrial Conference Board

Year	Wealth Distributed by States		Total Wealth
	In 1913 Dollars	In Actual Current Dollars	In Actual Current Dollars*
1912.....	\$184,800,000,000	†\$183,000,000,000	†\$186,300,000,000
1913.....	189,100,000,000	189,100,000,000	192,500,000,000
1914.....	193,300,000,000	188,600,000,000	192,000,000,000
1915.....	197,500,000,000	196,700,000,000	200,200,000,000
1916.....	201,800,000,000	247,200,000,000	251,200,000,000
1917.....	206,000,000,000	346,800,000,000	351,700,000,000
1918.....	210,200,000,000	395,500,000,000	400,500,000,000
1919.....	214,500,000,000	425,900,000,000	431,000,000,000
1920.....	218,700,000,000	483,800,000,000	488,700,000,000
1921.....	222,900,000,000	311,700,000,000	317,200,000,000
1922.....	227,200,000,000	†314,700,000,000	†320,800,000,000
1923.....	231,400,000,000	333,500,000,000	339,900,000,000
1924.....	235,600,000,000	331,200,000,000	337,900,000,000
1925.....	239,900,000,000	355,700,000,000	362,400,000,000
1926.....	244,100,000,000	349,700,000,000	356,500,000,000
1927.....	248,300,000,000	339,400,000,000	346,400,000,000
1928.....	252,600,000,000	353,500,000,000	360,100,000,000
1929.....	256,800,000,000	355,000,000,000	361,800,000,000

*Including value United States Navy, privately owned waterworks and gold and silver coin and bullion. †Census figures.

While the estimates in 1913 dollar values showed a steady gain, the current dollar values fluctuated, reaching their highest point in 1920.

Based on the values allotted for the different states, the estimated wealth of the Southern states as a whole in 1929 was \$80,979,000,000, as compared with \$80,619,000,000 in 1928, \$71,375,000,000 in 1922 and \$40,631,000,000 in 1912. The wealth of the South today is within 10 per cent of the wealth of the entire country in 1900. Since 1912 the wealth of the South has nearly doubled; between 1922 and 1929 the South's wealth increased by \$9,604,000,000.

A more or less intensive industrial and rural development and great differences in the size of the geographical divisions of the country make sectional comparisons unsatisfactory. Nevertheless, the South in

such a comparison makes a rather strong showing. The wealth of the Middle Atlantic States, comprising Pennsylvania, New Jersey, Delaware and New York, in which the population is almost 263 persons to the

Estimated Wealth of United States, by States

States	1922	1929
Alabama	\$3,002,043,000	\$3,316,000,000
Arkansas	2,599,617,000	2,876,000,000
District of Columbia.....	1,697,270,000	1,860,000,000
Florida	2,440,491,000	2,905,000,000
Georgia	3,896,759,000	4,442,000,000
Kentucky	3,582,391,000	3,994,000,000
Louisiana	3,416,860,000	3,864,000,000
Maryland	3,990,730,000	4,537,000,000
Mississippi	2,177,690,000	2,476,000,000
Missouri	9,981,409,000	11,311,000,000
North Carolina	4,543,110,000	5,429,000,000
Oklahoma	3,993,524,000	4,271,000,000
South Carolina	2,404,845,000	2,763,000,000
Tennessee	4,228,251,000	4,957,000,000
Texas	9,850,888,000	10,939,000,000
Virginia	4,891,570,000	5,665,000,000
West Virginia	4,677,919,000	5,374,000,000
South	\$71,375,367,000	\$80,979,000,000
Maine	\$2,006,531,000	\$2,314,000,000
New Hampshire	1,374,135,000	1,595,000,000
Vermont	842,040,000	947,000,000
Massachusetts	12,980,839,000	15,032,000,000
Rhode Island	1,924,326,000	2,215,000,000
Connecticut	5,286,445,000	6,186,000,000
New England	\$24,414,316,000	\$28,289,000,000
New York	\$37,035,262,000	\$40,708,000,000
New Jersey	11,794,189,000	13,581,000,000
Pennsylvania	28,833,745,000	32,757,000,000
Delaware	625,765,000	725,000,000
Middle Atlantic	\$78,288,961,000	\$87,771,000,000
Ohio	\$18,489,552,000	\$21,390,000,000
Indiana	8,829,726,000	9,910,000,000
Illinois	22,232,794,000	24,356,000,000
Michigan	11,404,861,000	13,293,000,000
Wisconsin	7,866,081,000	8,964,000,000
East North Central.....	\$68,823,014,000	\$77,913,000,000
Minnesota	\$8,547,918,000	\$9,518,000,000
Iowa	10,511,682,000	11,385,000,000
North Dakota	2,467,772,000	2,580,000,000
South Dakota	2,925,968,000	3,419,000,000
Nebraska	5,320,075,000	5,818,000,000
Kansas	6,264,058,000	6,791,000,000
West North Central....	\$36,037,473,000	\$39,511,000,000
Montana	\$2,223,189,000	\$2,560,000,000
Idaho	1,533,941,000	1,829,000,000
Wyoming	976,239,000	1,167,000,000
Colorado	3,229,412,000	3,516,000,000
New Mexico	851,836,000	963,000,000
Arizona	1,314,291,000	1,578,000,000
Utah	1,535,477,000	1,765,000,000
Nevada	541,716,000	569,000,000
Mountain	\$12,206,101,000	\$13,947,000,000
Washington	\$5,122,405,000	\$5,727,000,000
Oregon	3,419,459,000	3,844,000,000
California	15,031,734,000	17,048,000,000
Pacific	\$23,573,598,000	\$26,619,000,000
United States	*\$320,803,862,000	†\$361,837,000,000

*Includes \$6,085,000,000 representing the value of ships of the United States Navy, value of privately owned waterworks, and value of gold and silver coin and bullion, not distributed by states.
†Includes \$6,808,000,000 representing the value of ships of the United States Navy, value of privately owned waterworks, and value of gold and silver coin and bullion, not distributed by states.

square mile, ranked first in 1929, with an aggregate of \$87,771,000,000. The wealth of the Southern states, where the population is but approximately a fifth as dense as in the East, was \$80,979,000,000, which gives the South second rank. The value of property in the East North Central states, with a population of 103 people to the square mile, was \$77,913,000,000. New England, where the population per square mile is 132, reported \$28,289,000,000 as representing its wealth. Therefore, the South's estimated total wealth is almost three times that of New England. Figures for other geographical sections are: West North Central, excluding Missouri which is classified as a Southern state, \$39,511,000,000; Mountain, \$13,947,000,000 and Pacific \$26,619,000,000. The accompanying table compiled by the MANUFACTURERS RECORD from the Census of 1922 and the Conference Board's estimates of 1929 shows the distribution of wealth by states and geographical divisions.

Futility of Price Fixing

ONE fact has again knocked out a bushel of theories in the Government's efforts to artificially maintain a price level for farm products. The law of supply and demand in governing prices has been found to be a fact that cannot be dislodged even by the most elaborate plans backed by hundreds of millions of public money. From all indications the Federal Farm Board's efforts to peg prices will go the way of all other price-fixing schemes. The theorists have taken two years and half a billion dollars of government credit to prove to the people that they could not lift themselves by their own boot straps.

Excuses, apologies and explanations as to why the Government, with all its influence, power and money, cannot control prices run the whole scale from charges of indifference and unwillingness of farmers to cooperate to charges of wilful sniping of commission and middle men who did not want the Federal Farm Board to succeed.

The simple answer is that world supply is in excess of demand in these farm products that the Government's stabilization program is aimed to protect. No one country could hope to corner the products of the world and establish an arbitrary price very long, when the rest of the world was producing in abundance and was only too willing to sell at a lower figure. Yet that is just what has happened and what the professional farm relievers are learning at the expense of American dirt farmers and the taxpayers of the nation. It has been a costly experience.

What is even more deplorable is the acute emergency which the Wall Street Journal points out as being created in the wheat market by the Federal Farm Board's announcement that it will withdraw its control of prices. The American farmer is indeed left in the lurch, for it is practically certain the coming wheat crop will sell below the price at which it was attempted to peg it. In addition, the wheat held

by the Federal Farm Board's Grain Stabilization Corporation is an ever-present threat to prevailing prices. To carry the wheat for any length of time is almost certain to entail further heavy losses to the Government, and there is no assurance that world supply will dwindle to the point that wheat prices will rise sufficiently to show a profit on the government wheat, which was purchased at above 80 cents a bushel. This cost is daily mounting, for the carrying charges on wheat average about $1\frac{1}{2}$ cents a bushel per month.

Commenting on the fact that the price of wheat is the lowest in a third of a century, the Atlanta Constitution states that "the past policy of the Farm Board, undoubtedly undertaken with a sincere intent to stabilize the farm industry, absorb and distribute its surpluses, and peg the price of its products on profitable levels, has gone abortive in a most conspicuous and disheartening way. Its efforts to help the farmers are being strongly discredited and resisted by the farmers, their leaders, and the produce traders."

As the Dallas News says: "There are vague hints that if you can't do it with regard to wheat you can't do it with regard to cotton." And this reasoning applies to all crops.

Costly as the lesson has been, if we are capable of profiting by our mistakes perhaps it will be a lesson well learned.

The South and Latin-America

THE Southern Foreign Trade Council conference will be held next September at New Orleans. And the time intervening is not too long for Southern industrial and business leaders to study and plan for the benefits of Latin-American trade. The object of the conference is to bring together delegations from countries interested in export and import trade through Southern ports, with the sentiment, "Foreign Trade in the South Is Growing."

In normal times, the United States ships to Latin-America \$800,000,000 worth of merchandise, which represents about 17 per cent of the country's entire export trade. Imports from Latin-America range around \$900,000,000, or 23 per cent of our national imports. Of this aggregate of \$1,700,000,000, it is hardly exaggeration to say that the South should enjoy the major share, through exports of its own raw and fabricated products plus international export and import shipments through its ports.

Six Latin-American countries alone account for \$1,200,000,000 a year in United States import and export trade, as follows:

Country	U. S. Imports	U. S. Exports
Argentina	\$118,000,000	\$210,000,000
Brazil	208,000,000	109,000,000
Chile	102,000,000	56,000,000
Mexico	118,000,000	134,000,000
Peru	30,000,000	26,000,000
Venezuela	52,000,000	46,000,000
Total	\$628,000,000	\$581,000,000

The United States in January of this year exported \$35,000 of resin to Brazil; \$109,000 of combed yarn to the Argentine; \$20,000 of cement to the Argentine; \$57,750 of sulphur to South America; \$46,500 iron and steel sheets to Chile; \$103,000 of bituminous coal and \$409,500 of petroleum to Brazil, and \$266,500 in gas and fuel oil to Chile. These items are picked at random from the monthly summary of foreign commerce. An item of \$101,000 in wrought iron pipe for Chile in January catches the eye.

Of the thousand and one varieties and articles in raw materials and fabricated products which Latin-America needs and stands prepared to purchase, the South can produce a large measure. Those which it does not itself produce it can supply through the established agencies which progressive American concerns maintain in scores of cities in the 16 Southern states.

Railroads, inland waterways, surfaced highways and direct air routes converge in the South from every section of the country. Southern ports with ample water, and modern facilities for loading and unloading mark the coast line from Baltimore to Miami and around to the tip of Texas. Already, the South ranks first in the volume of exports and second in imports, among the states and geographic divisions; yet it can handle very much greater volume.

Every requisite for profitable trade of enormous volume and value with Latin-America is in operation in the South, or in readiness. The Southern Foreign Trade conference has opportunity to exert a most inspiring influence.

Misleading the People

IN comment on "the present industrial and commercial situation," the Monthly Labor Review, published by the United States Department of Labor, prints the following:

"What is needed, is a readjustment of wages, and until this has been made it is difficult to see how unemployment can be prevented. It is not only a question of what labor may be entitled to; it is largely a question of the volume of wages which must be paid unless industry and commerce are to suffer."

The suggested readjustment, it is indicated, should be upward. The actual readjustment which has been taking place is downward.

It is unfortunate that the Department of Labor does not show clearly whether the quotation is its own official view, or the opinion of an individual to whom some accompanying statistics are attributed.

We hope the Department of Labor is not assuming an official dictatorial attitude toward American business which no Government agency has either legal or moral right to assume. If it is simply quoting an individual's opinion it should so explain.

One of the artificial remedies proposed a year ago to cure the business depression was to raise wages. We haven't heard very much of that lately.

\$179,000,000 of New Construction in South

Proposed Work at End of March Over \$88,000,000

CONTRACTS awarded during the first three months of 1931 in the sixteen Southern states, covering construction, building and engineering projects, had a total value of \$179,192,000, according to a compilation of reports published in the *Daily Construction Bulletin* and in the construction columns of the *Manufacturers Record*. During the first quarter of the preceding year contracts awarded for similar projects in the South amounted to \$184,242,500, and during the first three months of 1929 such awards had an aggregate value of \$182,396,000. The showing made in the first quarter of 1931 is particularly encouraging when it is considered that the value of 1930 construction awards in the Southern states set a new high record, exceeding by \$141,000,000 the 1929 total, and surpassing the previous high total record in 1926 by \$30,000,000.

The outstanding feature of last year's construction activity was the building of great mileages of natural gas pipe lines from producing areas in the Southwest and central South, to the Southeast and remote industrial centers in the middle West. Several of these major projects were let to contract in the first quarter of 1930, thus accounting in part for the high total of awards during the period. Moreover, in comparing 1931 figures with those of last year account must be taken of the decrease in the cost of construction, estimated at from 10 to 20 per cent, whereas awards this year are less than 3 per cent below 1930 awards for the same period.

Preliminary announcements covering contemplated new construction, January to March inclusive, called for an expenditure of more than \$276,000,000 compared with \$312,000,000, representing the estimated cost of proposed work announced in the corresponding three months of 1930 when a special drive was being made to speed up construction to relieve the unemployment situation. While many of the projects included in this total and reported early in the year have since been let to contract, a large number of important new undertakings are still in the plan stage and will not be let to contract until later in the year.

Road and Bridge Work Features

Southern Construction

The building of roads, streets and bridges features the year's construction activity to date. The valuation of awards in the first three months of 1931 for this class of construction, including only those individual contracts involving an expenditure of \$10,000 and up and omitting those projects for which no accurate cost figures were available exceeds \$89,000,000. Indications are that expenditures for 1931 for highway construction will set a new high record, reaching approximately \$600,000,000. Of the individual states Louisiana is setting the

pace for the South in the building of new highways, while Texas, Missouri and South Carolina are going forward with ambitious programs. The Texas legislature is considering plans for a highway bond issue of up to \$200,000,000. Alabama, West Virginia, Kentucky and Tennessee are completing a number of costly state-owned toll bridges, financed by bonds issued against the structures. Toll receipts will be used to amortize the bonds and after the indebtedness is paid the structures will be declared free.

Besides paving and bridge work under way in volume in numerous fast growing towns and cities of the South and Southwest, many fine subdivisions are being

developed calling for big expenditures for pavements, as well as for water and sewer systems and for gas and electric service. For example, a recent survey indicated that residential subdivisions under way in Kansas City, Mo., would necessitate a total expenditure of more than \$37,500,000.

Public Works Go Forward

Apace

Public building construction is being speeded up in the South in line with the Government's policy to relieve the unemployment situation and to hasten business recovery. This includes not only the expenditure of millions in the aggregate for work on inland waterways and harbors, for the building of flood control works along the Mississippi River and its tributaries, but for the establishment of numerous hospitals at scattered points for the U. S. Veterans Bureau, for the building of training centers for the Air Divisions of the Army and Navy at Bolling Field, Va., Langley Field, Va., Hampton Roads, Va., Shreveport, La., and Schertz, Texas; for Federal reformatories, and for the imposing group of structures to house the various departments of the Government in Washington on which more than \$150,000,000 is being expended. Moreover, new post offices, Federal courthouses, quarantine stations, naval depots, warehouses and similar building enterprises go to make up the Federal construction program.

Private Enterprises Build

Structures

Business structures of all types, large new store buildings, association and fraternal buildings, handsome churches and Sunday School edifices, costly school, university and college buildings, union bus terminals and railway stations, modern hotels and apartment houses, and structures of every type of service, all go to make up the rather well rounded building program under way and proposed in the Southern states. Awards for apartment houses and hotels in the

first three months of this year total more than \$8,435,000, while bank and office buildings let to contract had a value exceeding \$5,600,000, and store buildings let to contract represented an expenditure of over \$4,266,000.

March Construction and Building Activity

March activity was featured by the letting of contracts totalling over \$39,476,000 for road, paving and bridge projects. Awards for miscellaneous construction projects last month amounted to \$11,629,000, compared with \$10,220,000 covering lettings for similar undertakings in February. Under this heading are included such undertakings as steam and hydro power plants, public garages, railroad lines, piers, a diversity of industrial enterprises, and projects not properly included in the other listings. While residential and industrial building continues to lag, there was a noticeable

trend toward a revival of activity in both lines. Heavy expenditures are contemplated this year by the electric power and gas companies and the telephone companies serving various sections of the South. The Southwestern Bell Tele-

SUMMARY OF SOUTHERN ACTIVITY IN BUILDING AND INDUSTRY

	First Three Months, 1931	
	Contracts Awarded	Projects Proposed
Apartment houses and hotels	\$8,435,000	\$6,935,000
Association and fraternal	516,000	768,000
Bank and office buildings	5,603,000	2,225,000
Church buildings	859,000	2,294,000
City, county, government and state projects	11,348,000	21,745,000
Dwellings, costing \$10,000 and over....	5,359,000	5,521,000
Miscellaneous	32,923,000	114,386,000
Roads, paving and bridges	89,376,000	92,425,000
School buildings	9,823,000	11,726,000
Sewers, drainage and water works	10,689,000	16,791,000
Store buildings	4,266,000	2,171,000
Total	\$179,192,000	\$276,987,000
1930	\$184,242,500	\$312,420,500
1929	182,396,500	
1928	177,815,500	
1927	185,321,000	

phone Company is expending more than \$32,000,000 in five Southwestern states in 1931 for new plant facilities. The expenditure of public utilities illustrated by the 1931 work under way is most significant when it is considered that during the past few years utilities in the South have steadily increased capital expenditures for new facilities.

MARCH, 1931

Apartment houses and hotels	\$2,396,000	\$1,895,000
Association and fraternal	28,000	180,000
Bank and office buildings	1,255,000	565,000
Church buildings	120,000	444,000
City, county, government and state projects	3,422,000	8,562,000
Dwellings	1,739,000	1,039,000
Miscellaneous	11,629,000	30,708,000
Roads, paving and bridges	39,476,000	30,851,000
School buildings	3,563,000	4,397,000
Sewers, drainage and water works	2,406,000	9,275,000
Store buildings	2,953,000	362,000
Total	\$68,987,000	\$88,278,000
1930	\$69,753,000	\$117,563,000
1929	53,707,500	
1928	75,164,000	
1927	81,482,000	

Outstanding Building, Industrial and Engineering Projects for March

REPRESENTATIVE major enterprises selected at random from construction news items published in March are included in the following tabulation. An examination will reveal that a diversity of construction and building operations is under way and projected in every section of the territory from Maryland to Texas. The total investment involved in carrying to completion these 72 outstanding projects is \$211,000,000.

Location	Type of project	Estimated cost	Status	Promoted by
Birmingham, Ala.	Courthouse	\$1,500,000	Bonds voted to complete structure	Jefferson County
Tuscaloosa, Ala.	Hospital	1,100,000	Soon let contract	U. S. Veterans Bureau
Benton, Ark.	State Farm Colony	600,000	Soon let contract	Arkansas Construction Coms.
Fayetteville, Ark.	College buildings	725,000	Proposed	University of Arkansas
Little Rock, Ark.	Federal building	1,435,000	Proposed	Treasury Department
Washington, D. C.	Professional building	650,000	Contract let	The 1726 I Street Corp.
	Masonic Temple	2,000,000	Proposed	Masonic Temple Bldg. Coms.
	Airfield buildings	560,000	Proposed	Constr. Quartermaster, Bolling Field
	Warehouse	1,700,000	Proposed	U. S. Government
	Garage-market	5,000,000	Proposed	Kent Automatic Garage and Washington Market Corp.
	School	500,000	Contract let	District Commissioners
	Central heating plant	700,000	Proposed	Director of Public Bldgs.
	Tubercular hospital	2,000,000	Proposed	Department of Interior
	Incinerators	600,000	Soon let contracts	District Commissioners
Hialeah, Fla.	Club house	500,000	Proposed	Miami Jockey Club
Miami, Fla.	Theatre	500,000	Proposed	Publix Theatres Corp.
	Seaplane base	650,000	Under way	Pan-American Airways, Inc.
Tampa, Fla.	Telephone	500,000	1931 budget	Peninsular Telephone Co.

Location	Type of project	Estimated cost	Status	Promoted by
West Palm Beach, Fla.	Drainage, dredging	\$9,000,000	Under way	Okeechobee Flood Control Bd.
Atlanta, Ga.	Biscuit plant	500,000	Proposed	National Biscuit Co.
Ft. Benning, Ga.	Officers' quarters	700,000	Soon let contract	Constr. Quartermaster
Lexington, Ky.	Warehouse	500,000	Work under way	American Suppliers, Inc.
Louisville, Ky.	Electric power program	3,100,000	1931 budget	Louisville Gas & Electric Co.
Baton Rouge, La.	Dormitory	500,000	Soon let contract	Louisiana State University
New Orleans, La.	City parks	3,000,000	Proposed	Board of Commissioners
	Rail-highway bridge	15,000,000	Plans under way	New Orleans Public Belt R. R.
	Industrial College	500,000	Proposed	Orleans Parish School Board
	Hospital	500,000	Contract let	Flint-Goodrich Hospital
	Store	2,500,000	Contract let	J. K. Feibleman Realty Co.
	Oil pipe line	750,000	Under way	Atlas Pipe Line Co.
	Airfield buildings	1,500,000	Soon let contracts	Constr. Quartermaster, Barksdale Field
Winnfield, La.	Salt mine	1,000,000	Under way	Carey Salt Co.
Annapolis, Md.	Schools	1,000,000	Plans under way	Anne Arundel County
Baltimore, Md.	Water, sewer, electrical conduits, etc.	35,000,000	Bond election, May 5	City
	Hospital	1,500,000	Proposed	Hospital for Women of Md.
Missouri, Arkansas, Oklahoma, Texas, Kansas	Telephone	32,000,000	1931 program	Southwestern Bell Tel. Co.
Booneville, Mo.	Railroad bridge	1,233,000	Under way	Missouri-Kansas-Texas R. R. Co.
Independence, Mo.	Courthouse, jail, etc.	4,000,000	Bond election, May 23	Jackson County
Kansas City, Mo.	Parks, flood protection, airport, water, sewers, etc.	32,000,000	Bond election, May 26	City
	Grain elevator	1,000,000	Contract let	Missouri-Pacific R. R.
St. Louis, Mo.	Viaduct approaches	3,250,000	Under way	Board of Public Service
	Office building, 29-story	2,500,000	Proposed	Frank Building Corp.
	Nurses' home	600,000	Soon let contract	Board of Public Service
Springfield, Mo.	Sewers	700,000	Bonds voted	City
North Carolina	Dredging	670,000	Contract let	U. S. Engineer Office
Durham, N. C.	Federal building	550,000	Proposed	Treasury Department
Greensboro, N. C.	Sewage disposal plant	750,000	Proposed	City
El Reno, Okla.	Reformatory	3,000,000	Proposed	Bureau of Prisons
Oklahoma City, Okla.	Hotel, 26-story	3,000,000	Work resumed	Oklahoma Hotel Bldg. Co.
	Electric power program	3,577,000	1931 budget	Oklahoma Gas & Electric Co.
Tulsa, Okla.	Residences	2,000,000	Under way	Col. R. T. Daniel
	Highway bridge	500,000	Proposed	City
Memphis, Tenn.	Waterworks	3,000,000	Proposed	City
Beaumont, Texas	Waterworks	1,000,000	Proposed	City
Dallas, Texas	Hospital	500,000	Proposed	Dallas County
El Paso, Texas	Telephone	925,000	1931 budget	Mountain States Tel. & Tel. Co.
Ft. Worth, Texas	Masonic Temple	1,000,000	Proposed	Masonic Temple Builders Asso.
Galveston, Texas	Office building, 8-story	1,000,000	Contract let	Gulf, Colorado & Santa Fe Ry.
Houston, Texas	Apartment house	1,000,000	Proposed	26 Sunset Road, Inc.
	Subdivision	500,000	Proposed	W. H. Holland
	Storm sewers	500,000	Soon let contracts	City
Laredo, Texas	Office building, 12-story	650,000	Proposed	William Epstein
Longview, Texas	Oil pipe line	1,000,000	Under way	Texas Company
	Oil pipe line	1,000,000	Under way	Arkansas Natural Gas Co.
San Antonio, Texas	School	1,000,000	Soon let contract	Board of Education
Texas City, Texas	Oil refinery	1,000,000	Under way	Republic Oil Refinery Co.
Waco, Texas	Hospital	1,500,000	Contract let	U. S. Veterans Bureau
Virginia	Natural gas line	5,000,000	Under way	Va. Gas Transmission Corp.
Charlottesville, Va.	Engineering building	500,000	Plans under way	University of Virginia
Danville, Va.	Post office	500,000	Proposed	Treasury Department
Hampton Roads, Va.	Pier	600,000	Contract let	Bureau of Yards and Docks
West Virginia	Canal lock	800,000	Contract let	U. S. Engineer Office

IMPRESSIVE CAPITOL

Sculpture Contracts on \$5,000,000 Louisiana Project

Baton Rouge, La.—Due to a low bid on the general contract to erect the new \$5,000,000 Louisiana State Capitol, now under construction, the building will be finer than was originally thought possible, according to Leon C. Weiss, of Weiss, Dreyfous & Seiferth, architects. White granite will be substituted for limestone around the base at an additional cost of \$37,151, while Alabama

limestone will be substituted for Indiana limestone at an additional cost of \$26,910. Bronze windows and sills will be substituted for steel at an additional cost of \$61,892, and a voting machine will be installed in the Senate chamber at a cost of \$10,581. Sculpture contracts have been awarded as follows: Lee Lavire, \$43,900; Picirilli Bros., \$40,875; Ulric E. Ellerhusen, \$38,000, all of New York; Adolph Alexander Weinman, Long Island, N. Y., \$45,000; Lorado Taft, Chicago, \$50,000, and Lachine & Co., New Orleans, \$22,000. The George A. Fuller Co., Washington, D. C., is the general contractor.

\$400,000 Hotel and Offices

Dallas, Tex.—Plans have been made for the construction of an 8-story hotel and office building in Oak Cliff, Dallas, in which B. A. Parrish, a local realtor and contractor, is interested. The structure, to occupy a site fronting 150 feet on Jefferson avenue and 210 feet on Beckley street, is estimated to cost \$400,000. Tentative plans provide space on the ground floor on both streets for business houses, with offices on the second and possibly on the third floor, and hotel rooms above.

\$1,000,000

Mine

Facilities



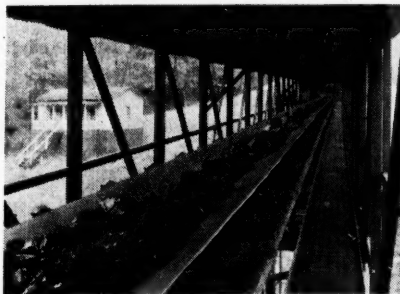
Showing the Mayflower Mine and the Surrounding Country

The conveyor which brings the coal from the headhouse near the top of the mountain to the tipple below is 3400 feet long

THE Mayflower mine, with a capacity of 350 tons hourly, the second operation of the Blue Diamond Coal Co. of Knoxville, Tenn., was completed last year at Bonny Blue, in Lee County, Va., at an expenditure of approximately \$1,000,000. These additional facilities increase the Bonny Blue output to 5000 tons of coal for each 8-hour work day and bring the investment to around \$2,000,000.

Considerable engineering skill was required in the development of facilities for conveying the high grade domestic coal from the working place in the mine to railroad cars with a minimum amount of breakage. The "High Splint" seam is said to be one of the highest mined seams in the eastern part of the United States. The coal is very hard in struc-

ture and comes from an elevation of 3100 feet above sea level. All construction is fireproof, the galleries having fireproof stairways and floors are either of subway drill or concrete, no wood being utilized. A conveyor of all-steel con-



Conveyor of All-Steel Construction
Note also the steel subway flooring

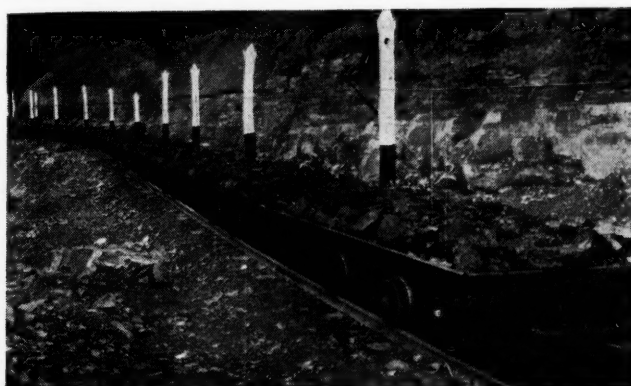
struction, 3400 feet long, brings the coal from the top of the headhouse, near the summit of the mountain, to the tipple in the valley.

The two upper sections of the conveyor are of the rope and button type. Transfer houses are used to take care of the change in slope of the mountain and to insure efficient operation of the conveyor, 1000 feet being the approximate maximum efficient length of the rope and button conveyor. The double-track, all-steel top house, with 300-ton storage bin, and steel approaches at top, is designed for use with drop bottom, three-ton, all-steel cars. Twelve-ton locomotives are used. The tipple serves four tracks and the plant is electrically operated throughout.

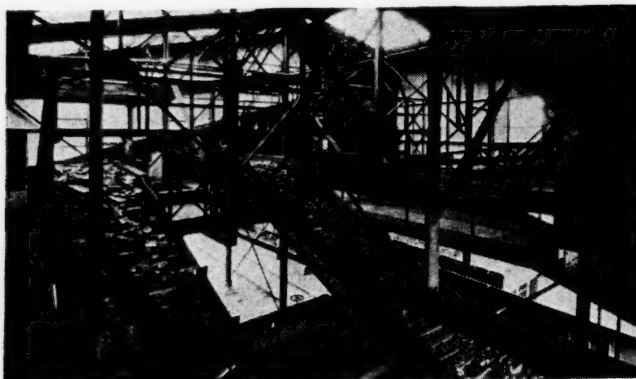
Underground development and equip-



Four Tracks Are Served by the Tipple
The screenings track is in the center background

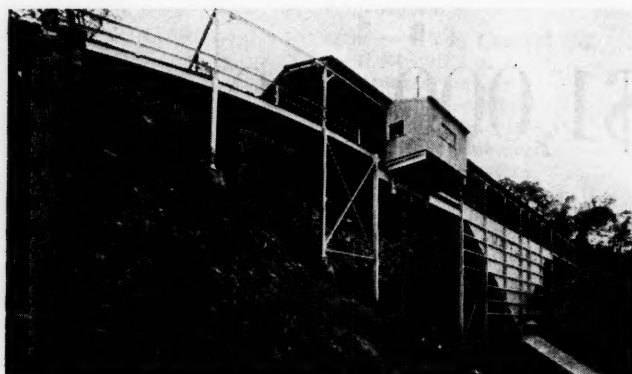


Mine Cars Operate on a Double Track
They hold about 3 tons each and have automatic drop bottoms



All-Steel Tipple, Except for Concrete Floors

The lighting is a special feature



Double Track Steel Top House

Has 300-ton storage bin

ment is described as the best and latest known to mining engineers. These facilities, together with substantial and fireproof outside plants, insure low costs brought about by favorable grades, low repair and replacement expense and other favorable conditions. A mining village has been established as part of the development.

Tunnel work and similar construction

at the mine was handled by the owners. The following firms received material and equipment contracts and contracts for construction:

Rope and Button Conveyors and Tipple—Fairmont Mining Machinery Co., Fairmont, W. Va.

Belt Conveyor—Stephens-Adamson Mfg. Co., Aurora, Ill.

Top House and Storage Bin—Champion Bridge Co., Wilmington, Ohio

Locomotives—Jeffrey Mfg. Co., Columbus, Ohio

Cutting Machines—Goodman Mfg. Co., Chicago

Rotary Converter and Motors—General Electric Co., Schenectady, N. Y.

Mine Cars—American Car & Foundry Co., New York

Rope—A. Leschen & Sons Rope Co., St. Louis, Mo.

Railroad and Mine Scales—Fairbanks, Morse & Co., Chicago

Dwellings and Recreation Building—R. H. Hamill Co., Huntington, W. Va.

Boiler and Stoker for Heating Plant—Brownell Co., Dayton, Ohio.

CHEERFUL NOTE FROM SALISBURY, N. C.

Industrial and Commercial Activity
Reviving Rapidly

The past fortnight has witnessed a heartening revival in commercial and industrial lines at Salisbury, N. C., according to R. E. L. Niel, executive secretary of the Salisbury Chamber of Commerce. Preparations for the resumption of the Vance Cotton Mills, idle for the past two years, are said to be the chief cause of the better feeling now prevailing. The property has been purchased by M. M. and Carl Rudisil of Shelby, N. C., and J. S. P. Carpenter, Philadelphia, Pa., and the new company will be known as the Cartex Mills, Inc. Active management of the plant will be in the hands of Mr. Carpenter, with shirtings and broadcloth featuring production. Two hundred operatives, many of them having worked in the old Vance mill, will be employed.

Construction is expected to be started soon on a \$150,000 addition to the Salisbury postoffice building, for which the Grahn Construction Co., Atlanta, Ga., has the general contract, and it is understood that local labor will be employed. A bonded warehouse will be conducted by the newly formed Salisbury Storage & Distributing Co. in a building formerly

occupied by the Wallace Wilson Hosiery Company, but vacant for the past two years. Because of Salisbury's advantageous location on the main line of the Southern Railway between Washington and Atlanta and on five state highways, forming the junction point for the western lines of the Southern and in the center of a population of nearly 800,000 within a radius of 50 miles, it is ideal as a distributing center and other warehouse and distributing companies are expected to locate there, according to Mr. Niel.

Another cheerful factor in the situation is the announcement that the Stanback Medicine Co., will move to Salisbury May 1 and employ about 50 people in the production and distribution of its products. Contract was recently awarded for paving a state road from the Iredell County line to Mill Bridge, which will connect with paving now under way from Mill Bridge to Salisbury, involving in all about \$300,000 and connecting Salisbury with Mooresville, N. C.

\$2,200,000 Bonds Offered

Charlotte, N. C.—Bids will be opened April 13 by the city treasurer for the purchase of \$2,200,000 bonds, said to be the largest single issue in the city's history.

900 Resume Full Time Work

Newell, W. Va.—Officials of the Homer Laughlin China Co. announce that 900 pottery workers will resume full time work at once at plant No. 6 which has been idle since last May. Plant No. 8 will also increase its force.

Mechanical Handling Exhibit

Favorable responses for participation in the first National Exposition of Mechanical Handling already have been received in such number that arrangements have been made for a far larger and more comprehensive exhibit than was at first proposed, it is announced. The feature will be held in the week of November 30 to December 5, at the Grand Central Palace, New York.

In scope, it now is proposed to embrace "all the motions of man to move materials, from their condition as raw products through to the finished standard necessities in industry, art and science." Three floors of the great structure will be utilized, and the exposition is expected to take rank with the Power Show, the Chemical Exposition and similar great annual fixtures.

The annual meeting of the American Society of Mechanical Engineers will be held in New York at the same time.

Citrus Packing Plant

A \$250,000 packing plant with a seasonal capacity of 1,000,000 boxes was recently completed by the Florence Citrus Growers' Association at Florence Villa, Fla. The building is 203 by 302 feet and includes two receiving platforms. Foundations and floors are of reinforced concrete. The steel frame is of the bow string arch type, the main span being 108 feet. The front wall is of rough texture buff brick. On one side is a 12-foot receiving platform with awning roof; there are 13 coloring rooms with a capacity of 11,500 boxes along the same side of the structure. On the opposite side is a 10-foot shipping platform, also with awning roof, and 15 precooling rooms with a capacity of 8000 boxes, together with a room housing two units of precooling machinery operated independently of each other.

The mezzanine floor over the precooling rooms provides space for box material storage, for coloring machinery and for foreman's office. Two box making machines are on this floor and all boxes are made up here and delivered to packers on the main floor by gravity chutes. Paper storage room, laboratory and a large platform for grading and handling canning grade and cull fruit, are on the north end of the building. The entire interior including interiors of the coloring and precooling room is painted aluminum. Exterior woodwork is painted buff, and steel sash and other trimmings are green.

Steam is used for heating the coloring rooms and for other necessary operations. Electric power is supplied by the Polk County Public Service Co. of Winter

Haven, Fla. Near the main building and parallel to it is a platform, 18 by 250 feet, to which empty field crates are conveyed and distributed over its entire length by a combination power and gravity conveyor. North of the building are a boiler room, garage and machine shop. There is fuel oil burner and there are two oil storage tanks with a total capacity of 12,000 gallons.

The building was designed by Tilden & McMichael of Winter Haven. W. B. Craig of the Seymour Craig Co., Winter Haven, was in charge of construction. The owners purchased all materials and

supervised construction. Sub-contracts were awarded as follows:

Ceramic Tile—Steward-Mellon Marble & Tile Co., Tampa

Roof and Skylights—Schneider Roofs, Inc., Winter Haven

Packing Machinery—Florida Citrus Machinery Co., Dunedin

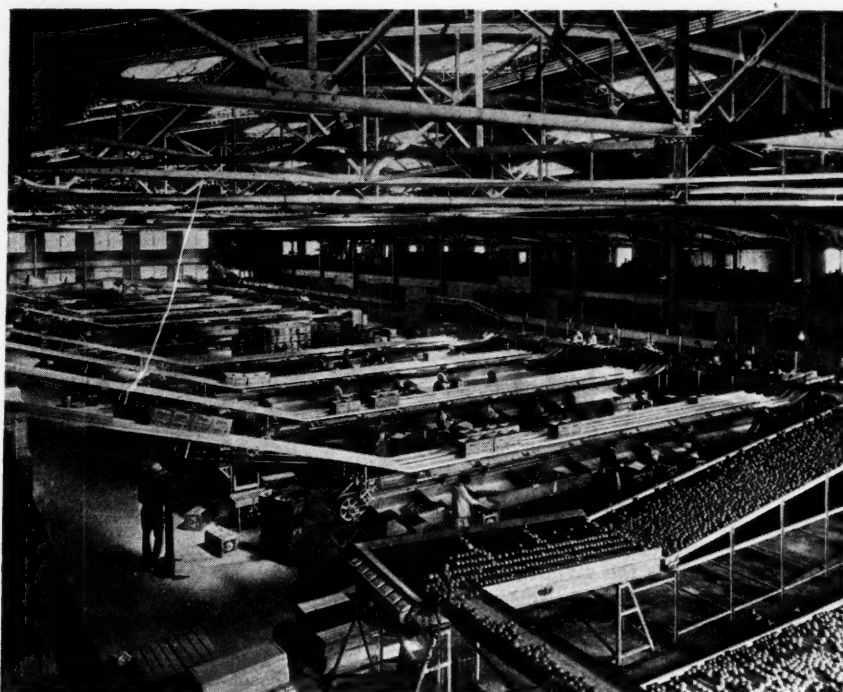
Electric Wiring and Supplies—Eaton Electric Co., Haines City

Lumber and General Supplies—Villa Lumber & Supply Co., and Seymour Craig Co., both Winter Haven

Hardware and Other Supplies—I. W. Phillip & Co.; D. F. Taylor, Inc., and Cameron & Barkley, all Tampa

Structural Steel—Ingalls Iron Works Co., Birmingham, Ala.

Steel Window Sash—Truscon Steel Co., Youngstown, Ohio.



This Interior View Gives Some Idea of the Proportions of the New Plant



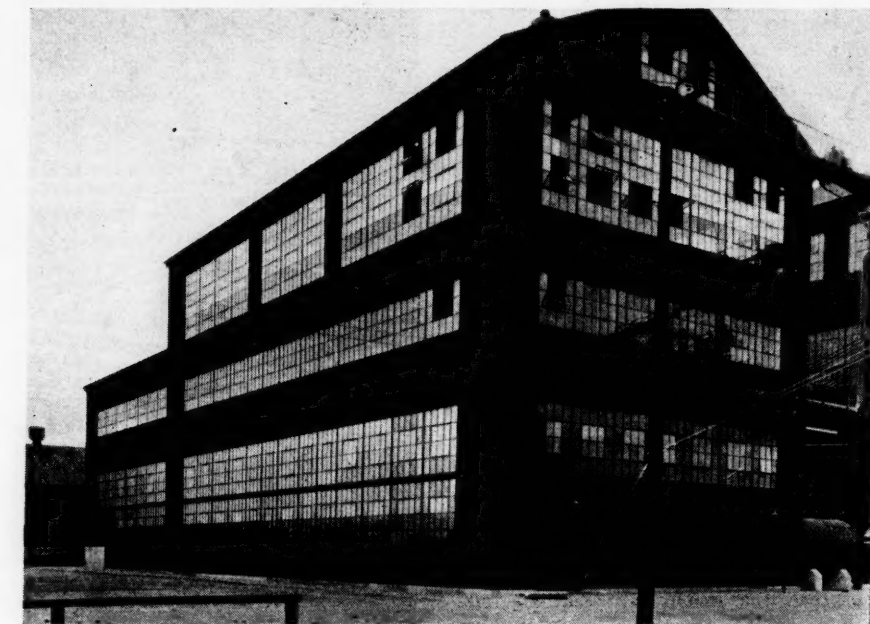
General View of \$250,000 Plant of the Florence Citrus Growers' Association at Florence Villa, Florida

New Chemical Industry

for
the
South

PINEY RIVER is the dividing line between the counties of Nelson and Amherst in Virginia, and at the new townsite of Piney River, the Southern Mineral Products Corporation, a wholly owned subsidiary of the Vanadium Corporation of America, New York, there is being placed in operation, a mine, mill and group of chemical units which will add another chemical operation to the South's growing chemical industry. The Blue Ridge mountains form the northwestern boundary of the two counties and the James River bounds them on the Southeast.

Southern Mineral Products Corporation owns mineral rights underlying 3,500 acres in Amherst and Nelson counties, and some time ago it purchased the fee simple to approximately 300 acres of land as a site for its factory development. The basis for this new project is "nelsonite" ore—so named by T. L. Watson in his "Mineral Resources of Virginia"—a mineral aggregate having as its main constituents ilmenite (a titanate



Phosphoric Acid and Phosphates Unit. Warehouse at Left Rear

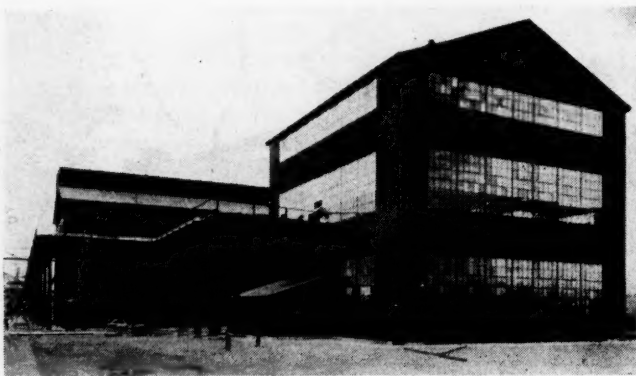
of iron) and apatite (phosphate of lime).

As a result of prolonged research in the Bridgeville, (Pa), Laboratories of the Vanadium Corporation, and in other commercial laboratories, a series of milling and magnetic separation processes were developed which permit the separation of crude nelsonite ore into four components: Ilmenite, apatite, crude magnetite and brown micaceous tailings.

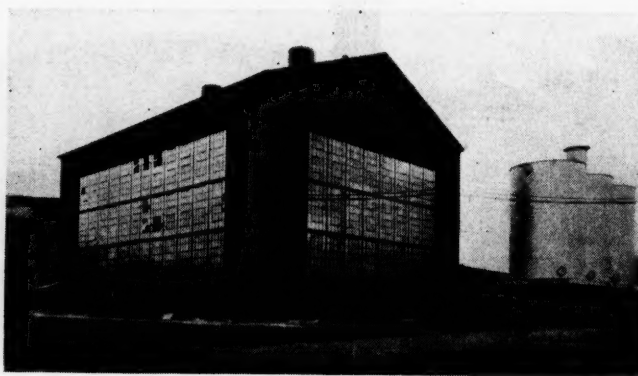
A pilot unit was erected at Bridgeville to prove the merit of the separation processes, and thereafter a program of chemical research was undertaken to develop suitable processes for the recovery of titanium dioxide from the ilmenite, and phosphoric acid and phosphates from the apatite.

Extensive Research Over Three-Year Period

When, as a result of this research, apparently suitable methods had been developed, a small scale chemical plant was installed, also at Bridgeville, to check the laboratory work and provide necessary data for the design of a commercial plant. This work, conducted under supervision of Dr. B. D. Saklatwalla, operating vice president of Vanadium Corporation, required over three years for its completion, and now has as its culmination the group of units at Piney River built for the Southern Mineral Products Corporation by the Stone and Webster Engineering Corporation to de-



Acid Recovery Plant



Mill Building and Ilmenite Storage

signs and specifications prepared jointly by Dr. Saklatwalla and A. E. Marshall, consulting chemical engineer of New York.

Illustrations which accompany this article show the extent of the enterprise, and the permanent type of construction employed. One view shows the ore body adjacent to the mill building and the open-cut mining operation, with minimum demands for transportation from the face of the workings to the mill building. To the right of the mill building are steel silos on reinforced concrete foundations, with a capacity of 600 tons of ilmenite. From the storage silos, ilmenite is conveyed by a pneumatic handling system to the ilmenite chemical plant, and from an interior mill storage, apatite is transported by an independent pneumatic system to the phosphate plant.

The ilmenite and apatite concentrates are chemically treated in these separate units for the production of titanium dioxide and phosphoric acid, and these two primary and technically pure products are either sold as such or converted in secondary plant units into titanium salts and phosphates.

Sulphuric Acid Produced by Contact Process

The principal reagent used for both primary processes is sulphuric acid, and because of the large quantities required, the plant units at Piney River include a contact sulphuric acid plant of the latest type, using a vanadium mass as the catalyst. The sole raw material for this process of sulphuric acid manufacture is sulphur, brought from Texas to Norfolk or Newport News by steamer and thence by a comparatively short rail haul to Piney River.

A considerable amount of the sulphuric acid used in the manufacture of titanium dioxide by the Southern Mineral Products Corporation process reappears at the end of the operation as an impure dilute acid. A recovery system has been devised and a recovery unit installed so that impurities are removed, the dilute acid is concentrated, and a strong acid, entirely suitable for re-use is recovered. The other reagents used in the processes are employed in small quantities; so, essentially, ilmenite, apatite and sulphur are the basic raw materials, with the two most important—ilmenite and apatite—produced by a mine and mill adjacent to the chemical plants.

The chemical processes at Piney River demand large quantities of water, as most of the reactions are carried out in solution stage, and several of the process steps demand thorough washings of precipitates so that traces of foreign materials can be removed. The Piney River, which flows through the center of the

Showing Face of Ore Body, Storage for Crude Ore, and Mill



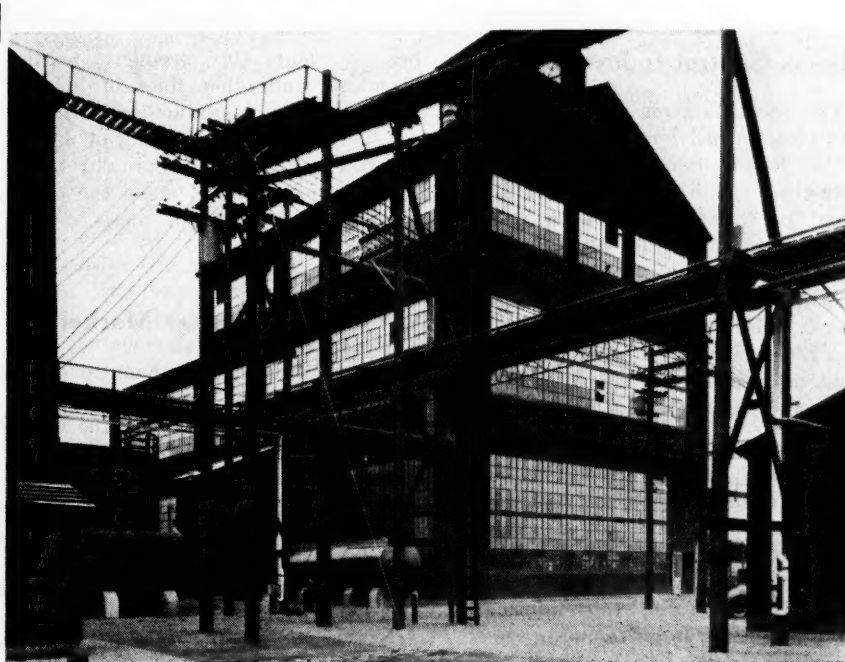
property, provides an ample water supply. Even in the drought period of 1930 the river had a minimum flow several times that required by the plant. Test wells have also proven the existence of an underground water strata.

Varied Units Make Up Plant Group

Steam required for the various process units is developed in a compact, coal-fired boiler plant designed by the Stone and Webster Engineering Corporation, and electric power is obtained over a special transmission line from the Appalachian Electric Power Company. In addition to the mill and process units, the plant group includes two warehouse buildings, mechanical, electrical and carpenter shops, and a series of strategically located fire hose houses, which with an independent high pressure stand pipe

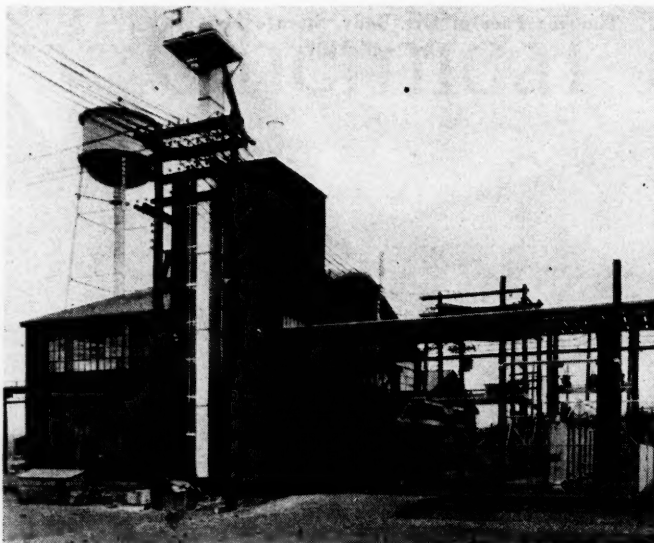
system, provide adequate fire protection.

Regarding the plant operations, it has already been stated that titanium dioxide and phosphoric acid are the principal primary products. Titanium dioxide is a pure, white inert material of high refractive index and hiding power, making it peculiarly adaptable for use as a white pigment or paint base. It is chemically stable, is not affected by industrial gases and vapors present in the atmosphere, and does not react with paint vehicles, resins, plastics, etc.; in short, it is described as an ideal base for white paints and for lightening the colors of other materials which are too dark in their natural shades to find acceptance under present day demands for pastel shades. Examples are the popular brush and spray lacquers, phenol and cresol condensation products of the Bakelite type; celluloid, cellulose acetate, and synthetic plastics and molding com-



Titanium Dioxide Unit With Pipe Bridges in Foreground

Boiler House,
Elevated
Water
Tank
and
Outdoor
Substation



pounds generally. Titanium dioxide is also being used with excellent results in such diverse fields as the manufacture of printing ink, linoleum, coated textiles, rubber, wall papers and other paper products, glass and coated or vitrified enamel ware. In fact, the list of applications "continually increases, and it is impossible to say into which of the useful arts this excellent pigment and opacifier will not ultimately find its way."

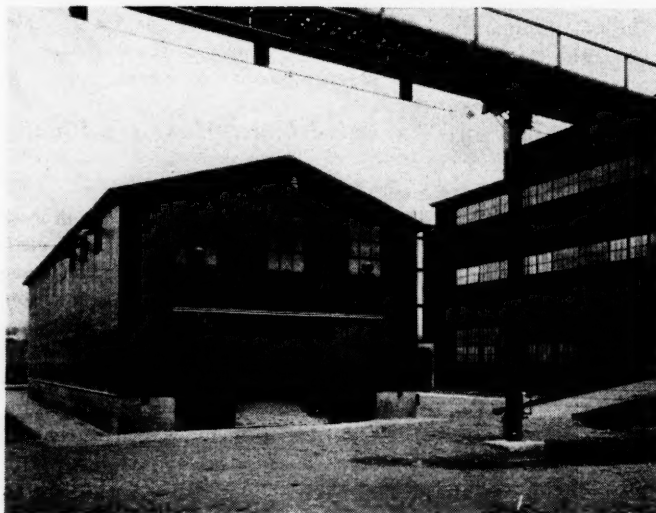
To Extend Operations to Production of Other Chemicals

While the principal activities of the corporation will be directed initially toward the manufacture of titanium dioxide and phosphoric acid products, the

plant has been arranged so that at a later date units can be added for the production of other titanium chemicals.

The apatite concentrate which is separated from the nelsonite ore is said to analyze over 90 percent tricalcic phosphate, making it a "very desirable raw material for the manufacture of phosphoric acid by the sulphuric acid method, and giving a good grade product without the need of complex purification steps."

There are two residual or by-products of the Piney River operations, sulphate of iron and sulphate of lime. Both of these, because of the nature of the raw materials will be of excellent grade, it is declared, and while they will not be major sources of income, their sales will return a small revenue instead of a charge for disposal via a waste pile.



Sulphur
Storage House
With
Sulphuric
Acid
Plant
at
Right

Illinois Central Industrial Survey

The South is given a prominent part in a comprehensive regional study made by the Illinois Central System covering industrial conditions in the 14 states, from the Great Lakes to the Gulf of Mexico, which comprise its on-line territory. The survey was made by Pace, Incorporated, of Chicago, industrial engineers, under supervision of Mark Fenton, general industrial agent of the railroad and required 15 months of field work and 60,000 miles of travel.

Information on industrial opportunities throughout the Mississippi Valley is made available, including data on raw materials, fuel, water, power, gas, buying power and other matters of industrial significance. Mapped and tabulated in convenient form, this information comprises seven large volumes.

Advantageous locations for furniture and other woodworking industries, pa-

per and pulp, clay products, textiles, chemicals and other lines of industry are indicated. Manufacturers who are considering the establishment of new industries or branch plants will be afforded opportunity to make use of the survey, the railroad announces.

Florida Sponge Market

During 1930, sponges handled on the Sponge Exchange at Tarpon Springs, Fla., chief sponge market of the United States, amounted to 414,082 pounds valued at \$802,938, an increase of 9 per cent in quantity and 14 per cent in value as compared with 1929, according to the Commerce Department's bureau of fisheries. However, it represents a decrease of 8 per cent in quantity and an increase of 14 per cent in value as compared with average quantity and value over the five-year period, 1922-1926.

Roanoke Building Prospects

Roanoke, Va.—A survey of the local building situation, embracing projects recently completed, under construction or contemplated, indicates an expenditure of more than \$3,000,000 during the current year. Construction of homes of the better type will be extensive, it is thought, because of the advantages of building now. Important projects now under way or contemplated include a \$750,000 office building nearing completion for the Norfolk and Western Railway Co.; \$560,000 federal post office building; \$150,000 Barrett Company plant at Rockydale stone quarry; \$250,000 rebuilding project of Ponce de Leon Hotel; \$180,000 wing to Hotel Roanoke; \$90,000 St. Andrews convent and orphanage, and \$800,000 Elks Club and Paramount Theater. Other building projects are only awaiting the coming of warm weather.

Forest Land Taxes

By R. C. HALL

Forest Taxation Inquiry,
United States Forest Service

THERE have been fewer breaks in the South in the solid front of the general property tax as applied to forest land than elsewhere in the United States. But, it was a Southern State which first made a serious attempt to release from the general property tax the cut-over forest properties which are in process of restoration, and to substitute a form of taxation apparently better adapted to the peculiar nature of these properties.

It was early recognized in Louisiana, by those who wanted to take advantage of the rapid growth and other favorable factors in the production of Southern pine, that the profit in the tree-growing business might depend on taxation. Even if current tax conditions were not burdensome, what of the future? Might not the increasing trend of public expenditures call for a more rigid administration of the property tax? If a crop of young trees is to be taxed annually on full value at increasing rates until ready for cutting, it is easily figured that the profits of the enterprise might all go to the public, leaving the grower sadly contemplating red figures in his accounts. Trees that are just under the usual cutting size and those on which the operator could barely "swap dollars," might easily grow fast enough in volume and value together to keep ahead of the accumulating tax and other charges for a short time. However, under average conditions, receipt of substantial income from forest lands that are being organized as going concerns largely from land that has already been too heavily cut, is deferred long enough so that private enterprise is obliged to take into account very seriously the probable tax cost, accumulated at compound interest, in estimating the net return to be expected.

Louisiana Forest Tax Law

Accordingly, as early as 1922, there was passed in Louisiana a Reforestation Contract law. This as amended in 1924 gives forest property specially classified under the law a fixed assessment during the life of the contract, which could not exceed 40 years. The land must be denuded of timber, but suitable for forest growth, with an actual cash value of not

less than \$3 or more than \$8 per acre. The owner must agree to grow suitable and useful timber trees. The forest must be maintained in a thrifty manner and treated in accordance with rules laid down in the contract by the Commissioner of Conservation and under his supervision.

In 1926, a complementary contract severance tax law in part superseded the earlier Louisiana law, being applicable only to timber cut from property reforested under a reforestation contract. It imposes a special severance or yield tax upon the value of all severed forest products cut from property covered by a contract executed subsequent to the enactment of the law. The tax may apply also, at the owner's option, to such products cut from property classified prior to such enactment. The rate of the tax is 6 per cent, and it is in lieu of all other taxes on the forest products upon which it is imposed for a period of 50 years from the date of the contract.

Obviously, the more recent law is somewhat less favorable to the forest land owners, but it seeks to give them reasonable assurance against excessive taxation and to allay opposition which had arisen in some of the parishes where it was thought that the earlier law would cut too heavily into local revenues.

Measured by the area and proportion of privately owned forest land classified, the Louisiana law is one of the most successful of all the special forest tax laws of an optional type which have been tried, either in the North or in the South. The total area as of March, 1930, is 375,575 acres. On a percentage basis, the showing is not so impressive, as only 2.1 per cent of the total is classified.

Other Forest Tax Laws

The only other Southern States besides Louisiana which have passed special forest tax laws are Alabama and Mississippi, except Kentucky, where such a law was held unconstitutional. That of Alabama dates from 1923 and is a forest tree exemption and yield tax type. It applies to properties specially classified by contract as "auxiliary state

forests," on which the forest trees are exempt from the property tax. Otherwise, the operation of the property tax is not changed. A privilege or yield tax is imposed on the value of the timber cut from such properties. The rate of the yield tax is 10 per cent, and its assessment is made by the State Tax Commission and the State Forestry Commission, jointly. The law also grants to timber taxed under the yield tax relief from all other privilege or other taxes collected by or for the state or any of its subdivisions. The classified property must be devoted to reforestation or timber culture, must be used for no purpose which would militate against the growth of timber, and must remain classified for at least five years; the trees must be protected with reasonable diligence against fire. Timber may be cut, turpentine or otherwise utilized only in accordance with rules formulated by the Forestry Commission.

The total area classified under the Alabama law in December, 1929, was 50,494 acres. This is less than 1 per cent of the privately owned forest land. It is reported that since, under the present administration of the general property tax, second growth timber is seldom taxed, the owners, as a rule, do not feel the necessity of placing their young timber under contract.

The Mississippi law, passed in 1927, is a limited forest tree exemption and yield tax law, with a yield tax rate of 10 per cent. The forest must be protected and preserved according to the rules of the county board of supervisors. The fire warden and his deputies are required to inspect such properties and report to the board of supervisors, at his discretion, or as required by the board, on the condition of the forests. No land has been classified under this law.

Recent Forest Taxation

Other Southern States are giving attention to the forest tax problem. In Virginia, a special legislative commission has been appointed by the Governor to develop a forest policy for the state, and in that connection is charged with giving special study to possible forest tax re-

forms. The Florida Forest Service has recently been engaged in a study of the forest tax situation. In North Carolina, a great deal of research has been conducted in recent years with respect to all phases of state and local taxation, and much interest has been manifested in the investigations which the Forest Taxation Inquiry of the United States Forest Service is making in that state as a part of its nationwide study.

One of the next steps in forest tax reform which might profitably be undertaken in the South is the development of measures of general application, at least as far as cut-over forest lands are concerned. Experience with optional laws, especially with those containing a contract feature, has indicated many administrative and other difficulties which are hard to overcome.

Another and even more important step might be in the better control of public expenditures. After all, the total weight of taxation is fixed by the amounts which governmental bodies spend. The problem is most serious in sparsely settled forest communities, with little industrial and agricultural wealth, and therefore there would seem to be great possibilities in trying to find the most efficient and economical method of pro-

viding the necessary governmental services in such communities. The customary plan of depending on a multitude of small governmental units, each a separate taxing district, has been found to be out of harmony with good economy and is especially ill adapted to typical forest regions. State governments are finding it advantageous to take more and more responsibility for roads and schools, leaving less for the counties and districts to handle. Rapid transportation and efficient business machinery make larger units of local government desirable.

In working for better control of public expenditures, and for the most appropriate means of financing roads and schools, forest land owners will find it possible to make allies of the agricultural interests, which are prone to regard with suspicion, or actively to oppose, special tax laws which would put forest land in a class apart from other real estate. They will also find themselves in line with the present trend of thought among those interested in the general reform of state and local taxation. Very substantial benefits to owners of forest land should result from fundamental improvements in rural government and taxation.

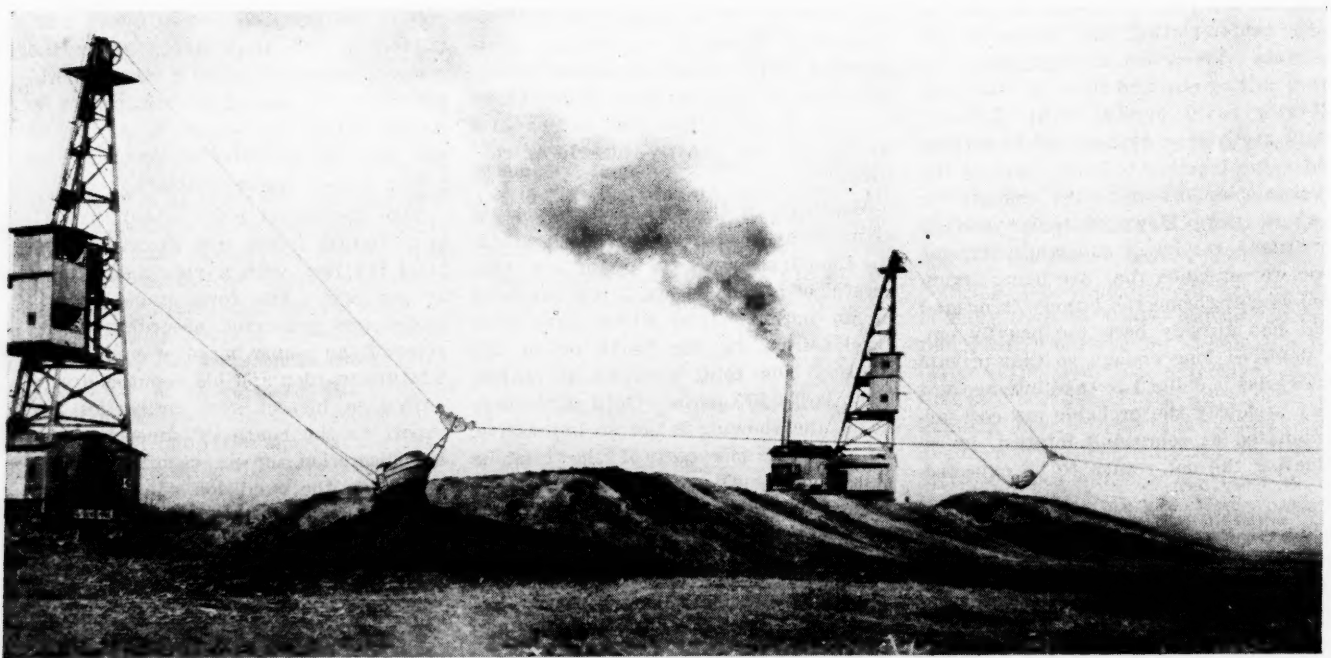
Augusta-Savannah Boat Line

Augusta, Ga.—Ben E. Lester, chairman of the Augusta Boat Line Commission, announces that local interests plan to build a 200-ton freight boat to draw only three feet of water when loaded, for a weekly river service to and from Savannah. The construction of the boat is said to be contingent upon the withdrawal of the city from the boat business while the new line is being tested, and it is recommended by Mr. Lester that the city boat commission enter into a contract with the private line to tie up the city-owned boat until it is determined whether the business will warrant two operations. Should the city agree to suspend operations while the new line is being tried out, it is said the new boat could be ready for service in 120 days.

\$400,000 Church Proposed

Oklahoma City, Okla.—The Exchange Avenue Baptist Church, Dr. Hale V. Davis, pastor, plans to begin construction in the fall of a \$400,000 church project, erecting it in units. Three buildings will be erected of concrete and brick—two to be about 65 by 100 feet and one 75 by 100 feet.

On the Mississippi River Below Greenville



Two Government-owned tower levee-building machines, fitted with a 10-yard Sauerman scraper bucket, are shown at work on a new levee in the loop below Greenville, Miss. The first machine is used to place about 40 per cent of the fill, and the second machine sits on this fill to complete the levee section.

In Charge of Traffic and Industrial Development for M-K-T



George C. Smith

ANNOUNCEMENT of appointment of George C. Smith as general traffic manager of the Missouri - Kansas - Texas Railroad in charge of traffic and industrial development, has followed immediately on his resignation as director of the industrial bureau of the Industrial Club of St. Louis, a position he held for three years. As explained by Vice-President George T. Atkins of the M-K-T, the appointment of Mr. Smith is in line with President M. H. Cahill's policy for an intensive strengthening of the organization of the road.

Mr. Smith, a native of Kansas, entered the transportation service at the age of 14 years as platform clerk for the Wells Fargo & Co. express at Norman, Okla. Later, he attended college and entered the faculty of Cornell University, teaching business organization and management, corporation finance, advertising and selling. From there, he went to Baltimore and aided in the reorganization of the Baltimore & Ohio Railroad industrial department, after which he organized an industrial bureau for the Baltimore Board of Trade, the first bureau of its kind in the United States. Following four years of this work he became associated with the Canton Company and Canton Railroad Company, Baltimore, as executive assistant to the president.

At the latest annual meeting of the American Industrial Development Council in Washington, Mr. Smith was elected chairman for the seventh consecutive term, and also he has served two terms as chairman of the industrial property division of the National Association of Real Estate Boards. He is the author of several articles on community organization and development, and industrial and market surveys.

"We feel that Mr. Smith's wide experience in industrial development work for railroads and communities will be a valuable asset not only to our railroad, but also to the Southwestern territory which it serves, and to the industries and resources of this fertile area," said Mr. Cahill. "Mr. Smith is recognized as one of the most eminent authorities in the country in the field of industrial development. Coupled with this experience is his knowledge of the resources and

potentialities of the Southwest and years of actual railroad experience, to qualify him to handle our traffic and development programs."

\$375,000 Hotel and Office Building

Longview, Tex.—Capitalists of Shreveport and Monroe, La., have acquired the Gregg Hotel here and will erect another building on an adjoining lot at a cost of \$375,000. Plans are being drawn for the new structure, it is said, which will contain 100 hotel rooms and 100 offices, the latter to occupy the three top floors. The Gregg Hotel and the new building will be separate, but operated under the same management—Gregg Hotel, Inc., of which C. B. Sherrouse, Gilbert, La., will be chairman of the board and R. G. Trippett, Shreveport, president.

Texas Timber Resources

In an article in Nature Magazine on the timber of Texas, E. O. Siecke, director of the Texas Forest Service, predicts that in future Texas will produce more forest products than at present, at the same time supporting larger populations in the commercial timber belt than is at present believed possible. According to Mr. Siecke, Texas has sufficient forest land, capable of producing high quality timber, to take care of the needs of the entire state if good forestry practice is followed. Moreover, Texas appears to be awakening to these opportunities.

\$1,400,000 Post Office

San Antonio, Tex.—Bids will be opened April 22 in the office of Jas. A. Wetmore, Acting Supervising Architect, Treasury Department, Washington, on sites for a new post office building here. It is understood that \$1,400,000 for construction and \$400,000 for the site will be available in July, 1932.

\$790,000 Federal Building

Texarkana, Ark-Tex.—Witt, Seibert & Halsey, local architects, have been commissioned by the Treasury Department, Washington, Jas. A. Wetmore, Acting Supervising Architect, to prepare plans and specifications for the new \$790,000 federal building to be erected here. The structure will occupy a site on State Line avenue, between Fifth and Sixth streets.

\$1,100,000 Co-operative Apartments

Houston, Tex.—The Sunset Road Development Co., awarded contract to Don Hall, Houston, at \$1,100,000, to erect an 18-story building at 26 Sunset boulevard for co-operative apartments. The structure will be 165 by 60 feet. Burns Roensch is the architect and R. C. Stokes, engineer, both of Houston. Paul F. Olsen, Chicago, is the consulting engineer.

\$425,000 Hospital Unit

General contract was recently awarded by the John N. Norton Memorial Infirmary, Louisville, Ky., to J. F. Russell & Co., St. Matthews, Ky., for erection of a new unit to cost approximately \$425,000, including \$50,000 for furnishings. The

building will be 5 stories and basement and will consist of three wings, each 50 by 75 feet, of steel and concrete slab construction, with buff brick exterior and Bowling Green stone. D. X. Murphy & Bro., Louisville, are the architects.



Infirmary Unit to Be Erected at Louisville

IRON, STEEL AND METAL MARKET

Slight Decrease in Steel

Production

Pittsburgh, April 6—[Special.]—A week ago it was doubtful whether there had been any decrease in the rate of steel production but now it is certain that there has been a slight decrease, not enough to count as a decrease but enough to show that the rapid increase of earlier in the year could not continue. At the middle of March steel production was at just about 50 per cent over the average rate in December. One may take it that about half the 50 per cent increase was nominal, due to there having been a special dip in steel production in December, not a reflection of the general rate of steel consumption or industrial activity, another part was by way of usual seasonal variation and another part was due to a little recovery in general sentiment.

The steel industry had entertained hopes that increase in demand would be continuous for many months, except perhaps for a slight midsummer dip. At no time did they expect the sharp percentage increases of January and February to continue. Now, with the slight decrease there has been in demand they expect minor fluctuations, no general swing. The low rate of last December is regarded as a special phenomenon, with practically no chance of anything like so low a rate being reached again.

The steel trade has always held, on the basis of various experiences, that general and marked recovery from depression starts approximately in March or October, and they see no reason to depart from that theory now. With about 8,000,000 tons of ingots produced in the quarter just ended, and a rate of about 9,000,000 tons prevailing now, this quarter and next may total around 16,000,000 tons, possibly a little more, and the last quarter may run decidedly heavier. At the moment it might be guessed that the limits of the year's total are about 32,000,000 and 35,000,000 tons respectively, which would be a drop from last year's 40,000,000 ton total, but a good gain over the 28,000,000 ton rate in the last quarter of that year.

Automobile production is engaged in a general increase, probably to a high point in May, but it has not been increasing in the last couple weeks as much as anticipated when the steel buying of a month and more ago occurred. Thereby some stocks of steel and parts are left to be liquidated and buying has been lighter of late, accounting perhaps

for the little decrease there has just been in steel production. Production of farm implements and tractors has decreased somewhat but that would hardly be noticed in steel.

A quarter million tons of fabricated structural steel let in connection with two activities in the last three weeks, Radio City in New York and Pennsylvania Railroad electrifications between New York and Washington, makes welcome addition to the order book of the structural fabricating industry, as lettings had been running materially lighter since September 1 than in the first eight months of last year, when they were remarkably heavy considering the state of general business. In fact, the precedents of past depressions have been greatly violated, for the general theory has been that a letting down in construction precedes and at least partly causes a depression. The course in fabricated structural steel has been just the opposite. A new high record in lettings was made in 1928, then the first half of 1929 showed a higher pace still, while there was a further gain in the four months July to October inclusive, the period from the beginning of general business recession to the stock market panic. Finally, there was only a slight letting down thereafter.

The course of steel prices is not particularly reassuring to producers. Advances in formal quotations on wire products, bars, shapes and plates may do little more than strengthen former prices, buyers being well covered for a time, while the further recession in sheets in the last two or three weeks, when prices had already been below cost, is disappointing.

Quiet But Steady Is the Word in the Metals

New York, April 6—[Special.]—The non-ferrous metal markets have been quiet but steady. Custom smelters have sold copper at 9½c as against the official price of 10c, but the official level is regarded as unchanged, especially since the export price is still 10.30c. Lead holds steady at 4.50c per pound, New York, despite predictions made in several quarters during the past few weeks that prices would drop. Zinc is stable at 3.95c per pound, East St. Louis, which is the bottom point of recent years reached on three or four occasions during the past few months. Silver has declined to below 28c per ounce, the

lowest for several weeks. Tin has sold at 26½c per pound recently, a little lower than accustomed levels for the winter and early spring.

Metal prices are kept low partly because of the cheapness of other commodities. Wheat and rubber in particular have dipped to new low levels in history. Weakness of shares on the New York Stock Exchange have also been depressing to metals.

Industrial news in general was less optimistic during the past week. Steel operations have declined for the first time this year and automobile production for April is now figured at 350,000 cars and trucks, or less, as against the first predictions of 400,000 units. The building and construction industry, however, is booming and record large tonnages for fabricated structural steel are being placed, thereby assuring a good outlet for some of the metals alongside the steel.

Silver has been the most widely fluctuating metal over the past few months. On February 16 the low point for all time was reached when it sold at 25¾c per ounce. Three weeks ago a price of 31¾c per ounce was reached but meanwhile the price has sagged down to the 28-cent level. A committee of the National Metal Exchange, New York, is working on plans to introduce trading in silver futures to the exchange. In the actual silver market units of trading are usually 50,000 ounces. On the exchange it is proposed to have units of 10,000 ounces, which would be less unwieldy than the larger amount.

Those metals which depend somewhat on the price of silver are slightly weaker in price, this applying particularly to antimony and tungsten, both being Chinese products and hence subject to silver fluctuations.

Demand for copper has been exceedingly poor. Export sales the past week averaged 200 tons daily until the middle of the week when 1000 tons was reached on one day. Total export sales during March were about 20,000 tons, a small total. However consumption is improving and it will be only a matter of a short time, it is believed, before domestic consumers will be forced into the market to replenish stocks.

March shipments of copper are said to have been satisfactory and though some are predicting that surplus stocks will be shown to have increased last month, it is probable that any gain will be very slight. Consumption of copper by public utility companies and electrical manu-

facturers has been considerably under normal so far this year.

The first set of March metal statistics to appear has been those concerning tin. The world's visible supply declined 732 tons last month to a total of 48,607 tons. Though this is a small decrease by comparison with the gain for the preceding month the trend is at least encouraging. Straits tin shipments for the month were 6174 tons, also a bullish figure, while American tin deliveries were 6120 tons, or about normal. At the same time stocks of tin in warehouses of the United Kingdom continue to gain and are the largest in history. In other words, though the amount of tin at the mines and smelters is declining the amount of stored tin is still excessive, but the best feature is that the trends at the mines are correct.

The metal statistics all reveal that the bugaboos of famine among the metals which have cropped up from time to time have been unfounded. When tin reached 72c per pound a few years ago they said the world would soon run short of that metal. Similarly copper was supposed to be on the eve of a famine in the fall of 1928 when surplus stocks were only 45,000 tons as against 350,000 tons today.

Only nickel and aluminum among the major metals resist the declining tendency of prices of recent years and prices of these metals hold only because control is so centrally located. To some extent substitutes have been used for these metals because of their relative dearth.

Maintaining Production of Pig Iron

Birmingham, Ala., April 6—[Special.]—Pig iron production will be maintained during the new quarter, a survey of probable needs of foundries and vari-

ous melters indicating continued activity. Base price is a little firmer, in the home territory the range being from \$12 to \$13 and even \$14, No. 2 foundry, while iron for outside destination holds at \$11. The surplus stock on furnace yards has been materially reduced during the last 90 days and prospects are for further cutting down of this tonnage. There is hope there will be warrant for bringing into commission one or two blast furnaces, now in shape, to add to the probable make. The two steel corporations are on the open market with foundry iron and practically all producers in the district are in position to supply both sand and machine-cast iron.

Greater production of cast iron pressure pipe is noted, one of the active shops having put additional men to work, and shipments have increased. Lettings since the first of the year have been fairly good with the pipe interests and, with the movement of pipe to warehouses in territories served by the manufacturers of this section, there has been steady operation of shops. Sixty to seventy per cent capacity is the estimate of operations and the pace will be kept up through the second quarter.

Iron producers are careful of the requirements of smaller melters. "Small orders receive the same attention we give the larger ones," is the way one furnace company puts it. "We specialize in serving the small foundries, very few of whom have their own laboratories. An order is an order with us, be it small, medium-sized or large. Every order is appreciated and we promise each one our most careful handling."

The numerous small orders have been aggregating well.

The steel situation in the South is still encouraging though structural shapes are being ordered in small tonnages. Shops in this line have fairly good backlogs and have warrant for operations on the

five to five and a half days a week schedule. The plate fabricators are doing nicely so far as tanks are concerned, the shops operating on full time with a little night work now and then in meeting instructions on delivery. Small shapes of steel are moving steadily. Reinforcing bar mills are on a 60 to 70 per cent capacity pace. Sheets are in good demand. No statement emanates from any quarter as to the advance in price on bars, structural shapes and plates affecting the market. More active shipment of reinforcing bars, contraction joints and other shapes of steel is looked for within another 30 to 60 days as plans for road development throughout the South proceed.

The coal industry shows no change, demand being slower. Coke is showing little change, fewer than 470 out of 1390 ovens at by-product coke works of the district being idle.

Birmingham will furnish the structural steel for the Swedish match works to be erected at Natchez, Miss.

Re-election of same three directors on the board of the Gulf States Steel Company at the annual meeting of stockholders the past week at Wilmington, Del., puts at rest for time being reports of merging with another big steel corporation.

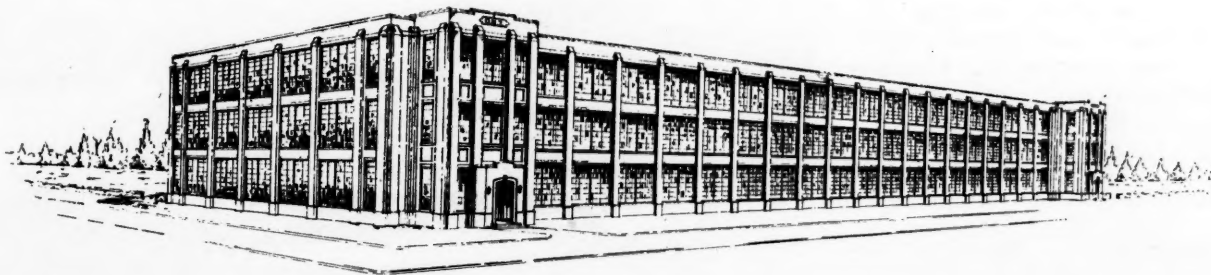
FIG IRON

No. 2 foundry, 1.75 to 2.25 per cent silicon, \$12.00 to \$13.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$12.50 to \$13.50; iron of 2.75 to 3.25 per cent silicon, \$13.00 to \$14.00; iron of 3.25 to 3.75 per cent silicon, \$14.50 to \$15.00.

OLD MATERIAL

Steel rails	\$10.00 to \$11.50
Steel axles	15.00 to 16.00
Iron axles	15.00 to 15.50
Heavy melting steel	9.50 to 11.00
No. 1 cast	10.00 to 11.00
Stove plate	8.50 to 9.00
No. 1 railroad wrought	9.50 to 10.00
Car wheels	10.00 to 10.50
Tramcar wheels	10.50 to 11.00
Machine turnings	7.50 to 8.00
Cast-iron borings	7.50 to 8.00
Cast-iron borings (chem.)	12.50 to 13.00
Rails for re-rolling	11.25 to 11.75

Thread Plant Under Way in the South



General contract to erect the first unit of a mill at Austell, Ga., for the Clark Thread Co., of Newark, N. J., has been awarded to A. K. Adams & Co., Atlanta, after plans by J. E. Sirrine & Co., Greenville, S. C., engineers, and excavation has been completed. The buildings comprising the first unit involve an expenditure of about \$450,000. The completed mill will cost approximately \$1,000,000.

HIGHWAYS AND MOTOR TRANSPORT

Battle Field Memorial Parks

Fredericksburg, Va.—Plans of the Fredericksburg and Spotsylvania County Battlefields Memorial Commission, Major Arthur E. Wilbourn, member and secretary, call for the construction of about 6 miles of gravel road in the Fredericksburg Battle Field Park and the purchase of land in the Chancellorsville, Wilderness and Spotsylvania Battle Field areas, for which \$115,000 is now available with an additional \$100,000 to become available July 1, 1931. Contracts are expected to be awarded within a few days and the work prosecuted under the supervision of Guy M. Herbert, Fredericksburg, engineer. While construction is in progress the Commission hopes to acquire some 1600 acres in the other three battlefield areas, in which it is planned to build approximately 34 miles of roads.

Aside from road construction, plans will be drawn for adequately marking the park areas with bronze relief maps, tablets and markers to enable visitors to visualize what occurred in the battles and to determine the location of any particular regiment, brigade or division participating. A few of these markers are expected to be erected in the Fredericksburg Park during the current year, in view of the approaching George Washington celebration. The Commission also plans to erect as soon as funds are available a headquarters office building with library and relic rooms attached, four public comfort stations and four sets of quarters for caretakers. Maj.-Gen. John L. Clem is chairman of the Commission and R. Walton Moore is a member.

\$1,699,000 Highway Bids

Raleigh, N. C.—According to a tabulation of bids by the State Highway Commission, lowest estimates for the construction of 18 projects involving more than 100 miles of road and seven bridges, reach a total of \$1,699,191. Contracts will soon be awarded.

\$1,000,000 Scenic Highway

Charlottesville, Va.—The Federal Government is expected to award contracts in June to build a 50-mile section of concrete highway along the top of the Blue Ridge Mountains through Shenandoah National Park, according to Thomas L.

Farrar, chairman of the division of forestry of the State Conservation and Development Commission. This section is estimated to cost \$750,000, while the entire proposed construction of 70 miles will involve an outlay of \$1,000,000, it is said.

\$459,000 Bridge Contract

Washington, D. C.—Contract to rebuild the Kingle Valley bridge here has been awarded by the District Commissioners to the W. P. Thurston Co., Inc., Richmond, Va., at \$459,440. The structure will be rebuilt according to the original plans of Major John C. Gotwals, Engineer-Commissioner, involving stone facing on the abutments and stone balustrades.

\$2,250,000 Road Bonds

Pampa, Tex.—Gray County has voted a bond issue of \$2,250,000 for paving state, federal and county highways, using \$720,000 to retire outstanding bonds. A big oil field will be served by new roads and isolated sections will be given good road connections with Pampa, the county seat.

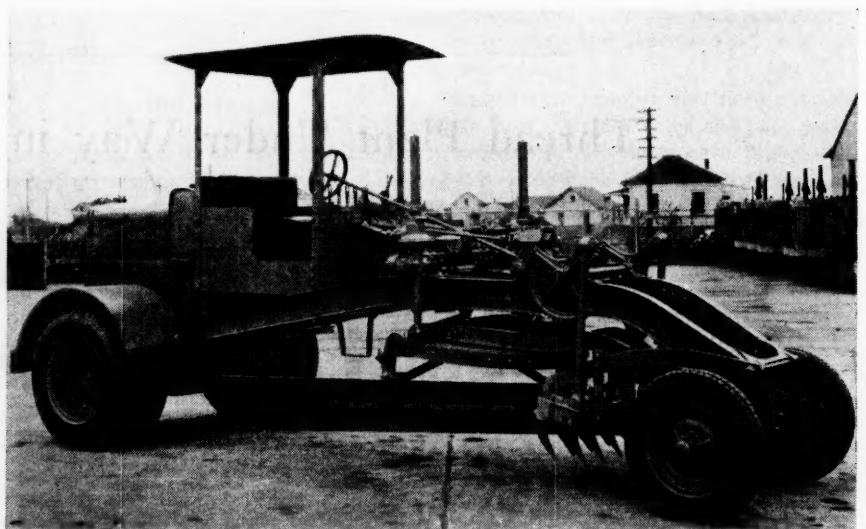
\$750,000 in Road Projects

Charleston, W. Va.—Bids will be opened April 21 by the State Road Commission on 13 highway projects covering a total of approximately 59 miles, and on two bridge projects. Proposed construction will affect 16 counties and is estimated to cost \$750,000.

Auto Patrol for Road Maintenance

The "Caterpillar" auto patrol, a heavy duty maintenance machine manufactured by the Caterpillar Tractor Co., Peoria, Ill., is designed to handle all kinds of road maintenance work. Flexibility is an outstanding feature. First speed takes care of scarifying, oil-mix and extremely heavy blading work; second speed cares for normal surface maintenance; third, for light surface maintenance, and fourth insures speed from one job to another. Pneumatic tires help to eliminate vibration. The steer-

ing wheel is the only manually operated control. Other controls raise and lower scarifier and blade, swing the circle and shift the blade from side to side. The engine, mounted in the main frame, behind operator's seat, is easily accessible and does not obstruct operator's vision. This location is said to place proper weight on the rear dual tires for maximum traction. When equipped with a snow plow the machine may be used for snow removal. Electric lights are provided for night work.

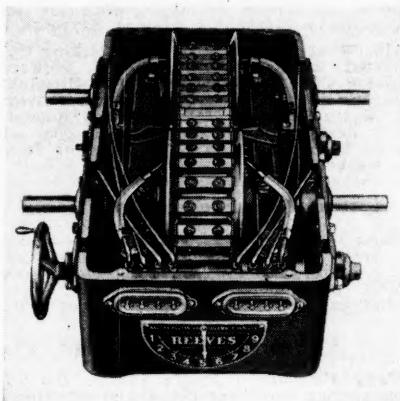


Heavy Duty "Caterpillar" Machine With Flexibility of Speed

NEW AND IMPROVED EQUIPMENT

Enclosed Design Transmission

The Reeves Pulley Company, Columbus, Ind., announce an enclosed design variable speed transmission as an important addition to their line of transmissions. The new unit is said to embody radical improvements over previous Reeves enclosed designs and to offer definite advantages to users of variable speed-control equipment. Internal operating parts are totally enclosed in a compact cast iron case of sturdy construction, and access is provided by U-shaped recesses in the sides of the bottom section of the case permitting the



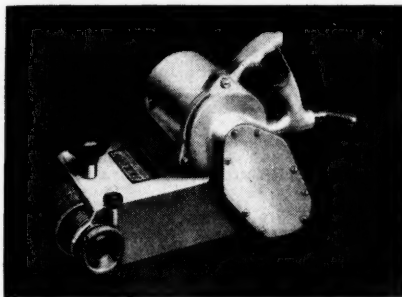
Has Centralized Lubrication

removal, as a unit, of the operating parts, including bearings of the two shafts as well as the shifting and belt tightening screws. Complete centralized lubrication, an outstanding feature, is accomplished through force feed fittings located in two recessed panels at one end of the transmission. The unit is built in six sizes to cover requirements from fractional horsepower to 10 horsepower in all speed ranges, and may be mounted on floor, ceiling or in a vertical position. The cover section accommodates adjustable motor rails and cross rails on which a complete motor unit or auxiliary countershaft unit may be mounted for varying requirements of machine-speed control.

Electric Belt Sander

Skilsaw, Inc., Chicago, Ill., manufacturer of electric saws, is offering a new electric belt sander for use on wood, metal and stone, said to provide "perfect surfacing in all degrees of cutting without ripples." An important mechanical feature is the adjustment of the front roller on the eccentric shaft with spring

tension which permits changing belts rapidly. Tension is controlled by a hand wheel on the side of the machine, while a convenient thumb-screw adjustment provides alignment on the rollers. The frame is of aluminum, die-cast for accuracy, strength and lightness, and the motor is of the Universal type, air-cooled by a centrifugal fan and operating from a light socket on alternating or direct cur-



A Light Weight and Powerful Unit

rent. The unit is equipped with helical gears made of heat-treated nickel steel, and specially designed for silent operation. Ball bearings are used throughout. The belt is $4\frac{1}{4}$ inches by $26\frac{5}{16}$ inches, with a free speed of 1700 feet per minute, and the pulleys are $2\frac{1}{2}$ inches in diameter. The over-all size of the sander is 7 by 14 inches, 9 inches high, with a net weight of 18 pounds.

Paint Spray Equipment

Extensive experiments the past year by the Imperial Brass Manufacturing Co., Chicago, to determine requirements of paint spray equipment in various fields and how best to meet these requirements, have resulted in a complete new line which includes a variety of guns for different purposes, ranging from junior sizes for small jobs to large sizes for heavy duty work. There have been developed also complete outfits consisting of air compressors, pressure containers, filters and regulators.



A Variety of Guns Are Made for Different Purposes

Gas-Electric Wrecking Crane

A special gas-electric powered Industrial Brownhoist double end railway wrecking crane, with a capacity of 105 tons at each end, was recently demonstrated to prominent railroad officials at Bay City, Mich. This machine, manufactured by the Industrial Brownhoist Corporation, Cleveland, Ohio, is designed to work in underground tunnels where clearances are close and is said to be the first wrecking crane to be powered by

gas-electric drive. It will be put in operation at the Cleveland Union Terminal and a duplicate crane now being built for the New York Central Railroad, will be put in service in New York City. The machines are equipped with three independent power units, any of which will run it, consisting of two 225-horsepower gasoline engines direct connected to 350-ampere, 400 volt D. C. generators and one 208-cell storage battery. All crane movements are electrically operated and the machines travel approximately 33 miles per hour under their own power.



Equipped With Three Independent Power Units

CONSTRUCTION DEPARTMENT and NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Construction Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Fla., Tampa—City, Don Thompson, Chrm. Aviation Bld., reported, interested in acquisition of 160-acre airport.

La., Shreveport—W. Murray Werner, Commercial Bank Bldg., Shreveport, reported, has contract at \$72,622 for construction of quartermaster maintenance shop, quartermaster warehouse and garage at Barksdale Field; hollow tile with rein. conc. foundations, steel sash, sheet metal work, electric wiring, etc. 3-12

Md., Frederick—City plans voting on \$35,000 bonds for airport.

Okla., Oklahoma City—City, George F. Brown, City Engr., will probably have plans ready for approval by April 8 for administration building at municipal airport. 2-26

Tex., Beaumont—Irby & Woodside, Archts., Goodhue Bldg., reported, preparing plans for 2 story, brick, administration building and an 80x116 ft. steel frame hangar at city airport.

Tex., Palestine—Chamber of Commerce petitioned city to vote on \$20,000 bonds for airport; has option on 288 acre tract.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Birmingham—City Comsn. approved contract between City and Southern Ry., B. Herman, Ch. Engr., Washington, D. C., for trestle over Village Creek, 10th St. and 14th Ave., West; \$12,000; construction to be in charge of railway.

Ala., Mobile—Mobile County build toll bridge, Dauphin Island to Cedar Point.

D. C., Washington—See Railways.

D. C., Washington—District Comms., Roland M. Brennan, District Bldg., have low bid from Rust Engineering Co., 1406 G St., N. W., Washington, and Pittsburgh, Pa., for reconstructing floor system, New York Ave. bridge. 3-19

D. C., Washington—Arlington Memorial Bridge Comsn., Navy Bldg., has low bids for granite, memorial entrance to Cemetery, of Arlington Memorial bridge project, about 61,500 cu. ft. granite: Item A, North Carolina Granite Co., Mt. Airy, N. C., \$185,000, awarded; Item B, New England Granite Works, Westerly, R. I., \$72,000; Item C, John Swenson Granite Co., Concord, N. H., \$224,500; Item D, New England Granite Works, Westerly, R. I., \$45,000; low bidders to be awarded contracts. 3-12

Ky., Henderson—Louisville & Nashville R. Co., W. H. Courtenay, Ch. Engr., Louisville, requested bids from 8 contracting firms for foundations and piers of river spans of proposed Henderson bridge; bids expected to be in April 15; 4 500-ft. spans, 1 675-ft. channel span over river; cost of bridge and approaches on both sides of river and raising old bridge, \$6,500,000. 1-15

Mo., St. Louis—City, Bd. of Public Service, has low bid from Mississippi Valley Structural Steel Co., 3117 Big Bend road, at \$433,650, for fabricating 7000 tons steel for East St. Louis Union Station approach to Municipal Bridge; from Moore Bros. Construction Co., East St. Louis, Ill., at \$320,337, for constructing foundations, rein. conc. piers, abutments and retaining walls. 3-5

Okla., Muskogee—C. R. Morgan, Engr., Muskogee, denies report that Muskogee County Comms. will build bridge over Arkansas River, Yahola. 4-2

TEXAS—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, has plans in progress for 3 bridges in following counties: Brown-McCulloch—steel, conc. bridge over Colorado River, between Brown and McCulloch Counties, Highway 10, overall length of project, 3600 ft., bridge, 848.17 ft., 22-ft. roadway, \$155,000, FAP 584-A;

McLennan—steel, conc. overpass over I. & G. N. Ry., Highway 7, 246.8 ft. long, 24-ft. roadway, overall length of project, 2700 ft., \$30,000, FAP 265-B;

Mason—steel, conc. bridge over Beaver Creek, Highway 9, 533.72 ft. long, length of project, 4075 ft., \$72,000, FAP 16 Reop.

Texas—State Highway Comsn. plans 2 bridges. See Roads, Streets and Paving.

Tex., Houston—See Roads, Streets and Paving.

Va., Fishersville—See Railways.

Ky., Midland—See Railways.

Va., Gordonsville—See Railways.

Va., Staunton—See Railways.

West Virginia—State Road Comsn. receives bids for 2 bridges. See Roads, Streets and Paving.

Contracts Awarded

Mo., St. Louis—City, Bd. of Public Service, let contract to Wabash Stone Co., 5100 Wise St., and Bridges Asphalt Paving Co., 1411 Central Industrial, for completing viaducts over tracks of Chicago, Rock Island & Pacific and Wabash tracks; \$131,000.

Texas—State Highway Comsn. let contracts for 9 bridges. See Roads, Streets and Paving.

Texas—State Highway Comsn. let contracts for 6 bridges. See Roads, Streets and Paving.

Canning and Packing Plants

Fla., DeFuniak Springs—R. E. Hicks will construct canning plant; consist of 5 buildings; main building of brick, 50x140 ft., will house the machinery; another building, for store room, will be 40x60 ft.; cost of building and equipping \$150,000.

Mo., Joplin—Levis Package & Produce Co., capital \$50,000, incorporated; C. W. Levis, Royal Heights; can fruits and vegetables.

Tex., Muleshoe—J. C. Dunn, San Juan, reported, establish canning plant; daily capacity 10 tons tomatoes.

Clayworking Plants

North Carolina—Hood Brick & Tile Co., B. Mifflin Hood, Daisy, Tenn., reported, acquired Carolina Shale Brick Co., Norwood; Carolina Fireproofing Co., Gulf; and Seaboard Shale Brick and Tile Co., Monroe.

Coal Mines and Coke Ovens

Ala., Nauvoo—Nauvoo-Black Creek Coal Co., G. D. Etter, Gen Supt., reported, plans increasing output from 250 tons to 1000 tons daily; has 6000 acre tract; will expend \$150,000 in improvements.

Ala., Sayreton—Republic Steel Corp., Republic Bldg., Youngstown, O., reported, purchased 400 ton coal preparation plant from

Montgomery Coal Washing & Mfg. Co., 4000 Eighth Ave., N., Birmingham, including feeders, conveyors, elevators, etc.; for installation in company's mine at Sayreton.

Ala., West Blocton—Hill Creek Mining Co., reported, let contract to Chas. C. Steward Machine Co., 1236 N. Fourth St., Birmingham, for preparation plant, screens, conveying equipment and elevating equipment; plant designed to load prepared coal on tracks by means of a drag conveyor from the washer.

Cotton Compresses and Gins

Tex., Corpus Christi—Aransas Compress Co. opens bids April 11 for Extension Unit No. 3, 1 story; 140x130 ft., struc. steel, wood piling, rein. conc.; sliding fire doors; Hardy & Curran, Archts. and Engrs., Nixon Bldg.

Cottonseed-Oil Mills

Tex., Flatonia—Flatonia Cotton Oil Co. constructing seed warehouse and rebuilding seed and hull house.

Drainage, Dredging and Irrigation

Ala., Montgomery—U. S. Engr. Office has low bid from Atlantic Gulf & Pacific Co., 15 Park Row, New York, for dredging 783,000 cu. yd., place measurement, Pensacola Bay to Perdido Bay link of Pensacola-Mobile Canal, at 7.88 cents per cu. yd. 3-19

Ga., Brunswick—U. S. Engr. Office, Savannah, opens bids May 4 for dredging about 37,080 cu. yd. hard material and 612,859 cu. yd. soft material, East River, Brunswick Harbor.

Louisiana—Bd. of State Engrs., New Orleans Court Bldg., New Orleans, has bids in for drainage work: Reid-Biggs Drainage Canal, Madison Parish, 12,000 ft., 53,000 cu. yd., and Reid-Bedford Diversion Canal, 6800 ft., 27,000 cu. yd. material, Midland Construction Co., Clarksdale, Miss., at 9.15 cents per cu. yd. on both projects (awarded); Grand Bend New Levee, J. E. Firman, Rosa, La., 22 cents per cu. yd. (low bidder). (See Miscellaneous Construction, 3-19)

Maryland—U. S. Engr. Office, Custom House, Baltimore, opens bids May 5 for dredging approx. 99,056 cu. yd. material, place measurement, Broad Creek River, Del., 65,187 cu. yd., Corsica River, Md., and 16,663 cu. yd., Kent Island Narrows, Md.

Okla., Medford—Pond Creek Drainage Dist. No. 1, Grant County, let contract to Jones Construction Co., Madison, Wis., for drainage work at \$22,840.

Tex., Bay City—Interstate Public Service Co., E. J. Crofoot, V.-Pres. and Gen. Mgr., Bay City, reported, improve canal system recently acquired from V. L. LeTulle; supply water to Texas Gulf Sulphur Co., using 3 electrical pumping plants.

Tex., Brownsville—Cameron County Water Improvement Dist. No. 14, Lute P. Stover, Pres., S. K. Hallam, Sec. Merchants Natl. Bank Bldg., opens bids Apr. 21 for certain irrigation canals, drainage ditches, protection levees, furnishing and installing pumps and other improvements; Homer B. Livingston, Dist. Engr., San Benito.

Tex., Harlingen—Cameron County Water Improvement Dist. No. 1, A. Tamm, Engr.,

209½ W. Jackson St., let contract to F. Brown, Brownsville, and J. Roberts, Harlingen, at \$30,000 for 300,000 sq. ft. canal lining.

Tex., Harlingen—Cameron County Water Improvement Dist. No. 15, A. Tamm, Dist. Engr., opens bids Apr. 27 for drainage improvements.

Tex., Texas City—U. S. Engr. Office, Galveston, opens bids Apr. 14 for dredging approx. 795,000 cu. yd. material in extension southward of harbor at Texas City Channel from Galveston Harbor to Texas City.

Tex., Wichita Falls—Wichita Falls Irrigation Dist. No. 2 votes Apr. 25 on \$430,000 bonds.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Arkansas—Federal Power Comsn., Washington, reported, ruled it had no jurisdiction over proposed development on Spring River, Fulton County of Arkansas—Missouri Power Co., 72 W. Adams St., Chicago, Ill., and that company, upon compliance with State law, was free to proceed to construct dams; company proposes to construct dam 1 mile below Mammoth Springs and another 5 miles down stream. 2-19

Ark., Scranton—Mississippi Valley Power Co., 1204 Garrison St., Fort Smith, reported granted franchise; completed surveys for line from Spadra to Scranton.

D. C., Washington—U. S. Dept. of Agriculture receives bids April 22 for extension and remodeling power house.

La., Farmerville—Louisiana Public Utilities Co., reported, double capacity of present plant; install oil engine, etc.

Miss., Starkville—City, reported, selected Swanson & McGraw, Balter Bldg., New Orleans, La., as engineers for light plant.

Mo., DeSoto—City, Frank D. Wall, Mayor, plans voting on \$95,000 bonds for power distribution system; Edw. L. Dillon, Engr., 702 Wainwright Bldg., St. Louis.

Mo., Moberly—City, J. B. Homan, Clk., may vote on \$600,000 bonds for power and light plant; Russell & Axon, Const. Engrs., 6200 Eastern Ave., St. Louis.

Md., St. Michaels—Maryland Light & Power Co., F. C. W. Webb, Salisbury, Counsel, applied for additional franchise for power lines in the county; plans building lines from St. Michaels to McDaniel and from Royal Oaks to Bellevue and thence across river to Oxford with a submarine cable; supply Tilghman, Oxford, and Trappe in addition to St. Michaels from plant at St. Michaels; will build and have in operation power plant at St. Michaels by August; later plan running line from Wye Mills to Longwood.

Virginia—Power Comsn., Washington, D. C., reported, rejected application of Appalachian Electric Power Co., Charleston, W. Va., for a modified or minor part license to build an \$11,000,000 plant on New River in Virginia and offered the company a standard or major license, which permits the recapture of the plant; a minor part license would require only regulation of stream flow to maintain navigation in the Kanawha and would not give the government power to recapture the power plant. 1-15

W. Va., Huntington—City, reported, install monolite street lighting system in West Fourteenth St. section and on Sixteenth St. south of Eighth Ave.

Flour, Feed and Meal Mills

Tex., Miami—H. L. Poe and associates plan installation of 50 bbl. capacity flour mill in connection with grain elevator.

Foundry and Machine Plants

Tex., Houston—Hughes Tool Co., offering \$3,000,000 first mortgage, 5½% gold bonds, through The National City Co., New York; company incorporated in 1913 as successor to partnership of Sharp & Hughes; manufactures rock bits, core bits, tool joints, etc.; plant at Houston occupies site of 70 acres; in addition to main plant field service repair and maintenance shops are owned and operated at Oklahoma City, Okla., and Midland, Tex.; entire capital of Hughes Tool Co. will be owned by a Delaware corporation of same or similar name which in turn will be owned

by Hughes Industries, Ltd.; proceeds of bonds to be used for purchase of above mentioned properties, patents and royalty rights now owned or controlled by Hughes Industries Co., Ltd.

Tex., San Antonio—L. E. Rush, 1017 W. Laurel St., reported, in charge of preliminary plans of Hydro Plant Corp., D. J. Little, Pres., for construction of \$500,000 plant for manufacture hydraulic brakes, pumps and other hydraulic machinery; install machine shop.

Garages and Filling Stations

Ga., Newnan—Specification Material System, Sterick Bldg., Memphis, Tenn., and Ansley Hotel, Atlanta, erect filling station; work by owner in charge of T. R. Craig.

Ky., Lexington—Wombwell Automotive Parts Co., 151 E. Short St., increased capital \$60,000 to \$200,000.

La., New Orleans—DeSoto Garage, Inc., chartered; Lucien M. Lesesne, Vincent Bldg.

La., New Orleans—Pan-American Petroleum Corp., 839 Canal Bank Bldg., receives bids April 9 for construction of 4 metal and steel service stations, Cor. S. Miro and Calhoun Sts., Feret and Roberts Sts., Antonine St. between Amelia and Prytania Sts. and Delaronde St. and Seguin St., Algiers; following contractors invited to bid: J. A. Petty & Sons, Inc., Audubon Bldg.; L. A. Pallfelt, Balter Bldg.; Lionel F. Favret, Louisiana Bldg.; J. J. Mertzweiler, 7712 Spruce St.; Otis W. Sharp, 144 Carondelet St.; H. J. Estrade, 7226 Washington Ave.; T. A. Pittman Co., Canal Bank Bldg.; Wm. Wallace, Pere Marquette Bldg.; Rellly-Ruckstuhl, Inc., 423 Carondelet St.; J. Delarosa, 616 Foydras St., all New Orleans; and J. Bodenger, Inc., Algiers. 3-5

La., New Orleans—Sinclair Refining Co. erect filling station; 1 story, 50x50 ft., brick and stucco, Louisiana Ave. and Dryades St.; following contractors estimating: Rellly-Ruckstuhl, Inc., 423 Carondelet St.; Wm. Wallace, Pere Marquette Bldg.; H. A. Pallfelt, Balter Bldg.; Lionel F. Favret, Louisiana Bldg.; bids opened April 13; Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg.

Md., Baltimore—George Wessell, 601 W. 40th St., reported, handle construction of garage, Calvert and Read Sts., for Calvert Garage Co.; 1 story; 78x123 ft.; cost \$20,000; now seek permit.

Md., Baltimore—W. W. Neale, 4616 Edmondson Ave., construct 1 story brick and block garage, 4608 Edmondson Ave.; A. E. Sellers, Archt.; A. E. Sellers Bldg. Co., Inc., Bldrs.; cost \$20,000.

Md., Baltimore—John J. Bauer, 242 S. Washington St., and Louis C. Mueller plan filling station, 2300 E. Eager St.

Md., Baltimore—Guilford Realty Co., 3330 St. Paul St., receiving bids for garage 1005 St. Paul St.; brick; 1 story and basement; 54x110 ft.; following contractors estimating: M. A. Long, 10 W. Chase St.; North-Eastern Constr. Co., 6 W. Madison St.; J. George Beasall, 3005 Shannon Drive; Palmer & Lamden, Archts., 513 N. Charles St. 3-26

Md., Baltimore—Henry Straver, Philadelphia Rd. near Odel St., reported, let contract to Edw. Hoffmeister, Philadelphia Rd., for garage and filling station Philadelphia Rd. nr. Odel St.; brick; 1 story; 24x36 ft.; Porter T. Bond, Archt., 911 Gorsuch Ave.

Md., Baltimore—Atlantic Refining Co., Philadelphia, Pa., reported, construct filling station Cathedral and Eager Sts.; 40x100 ft.; construction by owner.

Md., Baltimore—Standard Oil Co., Standard Oil Bldg., plans 1 story, brick and stucco filling station Belvedere and Greenspring Aves.

Mo., Joplin—McNeal Machinery Co., Fourth and Division St., reported, acquired building, N. W. Cor. Second St. and Virginia Ave.; plans remodeling for filling station.

Mo., Kansas City—Colonial Service Stations, Inc., chartered; H. O. Sheidley, 106 W. 65th Terrace.

Mo., St. Louis—All Weather Tire Co., incorporated; Sid Boedeker, 6134 Lucille St., St. Louis.

Mo., St. Louis—Morgan Garage Co., incorporated; Frank Goldstein, 5780 Westminster St.

N. C., Charlotte—George A. Fiers erect service station on E. Boulevard and Lombardy Circle.

N. C., Charlotte—H. M. Henderson erect service station, N. Tryon and Twenty-sixth Sts.

N. C., Greensboro—Atlantic Refining Co., Philadelphia, Pa., reported, construct 3 service stations at North Green St. and Battleground Ave., W. Market St. and Cedar St. and Aycock and Spring Garden Sts.; brick and frame; cost \$17,000; Thomason and Bartholomew Co., Charlotte, Contrs.; J. O. Law, Piedmont Bldg., in charge.

Tex., Hearne—Coleman Yearly Motor Co., incorporated; S. D. Coleman, J. H. Yearly.

Tex., Kenedy—T. H. Atkinson plans erection of filling station, Main and Fourth Sts.

Tex., San Antonio—Kneupper Garage and Body Works, 1514 Broadway, has plans by Walter H. Anderson, Travis Bldg., for filling station and garage, Broadway and Casa Sts.; 1 story, rein. conc. and stucco.

Tex., San Antonio—Emig Service Stores, A. W. Emig, Pres., Seventh and Alamo Sts., constructing tire store and service station; 75x150 ft.; cost \$30,000; C. A. Weeber, Contr. See Want Section—Machinery and Supplies.

Tex., Spearman—J. J. Green, Stinnett, erecting oil station to be leased to Gulf Refining Co.

W. Va., Parkersburg—Standard Oil Co. of New Jersey, L. H. Morgan, Local Mgr., reported, construct filling stations at Seventh and Eastlawn and in Vienna, corner of Dudley Ave. and Grand Central Aves.

W. Va., Wheeling—Gulf Refining Co., Frick Annex, Pittsburgh, Pa., reported, construct bulk gasoline and oil storage plant on River Rd.

Gas and Oil Enterprises

Fla., Eustis—Florida Gas Co., subsidiary of Moody-Seagraves, 129 N. Grove St., Eustis, constructing gas system for Eustis district, cost \$150,000; work is being done by Florida Gas Co., 129 N. Grove St.; pipe furnished by Continental Supply Co., 1501 Locust St., St. Louis, Mo., and valves by Merco-Nordstrom Co., 343 Sansome St., San Francisco, Calif.; construction by company's forces.

Louisiana—Arkansas Pipe Line Corp., reported, organized as subsidiary of Arkansas Natural Gas Co., Shreveport, to operate \$1,000,000 pipe line to be constructed from Lathrop pool, Gregg County to Shreveport; Henry L. Doherty, Pres., 60 Wall St., New York; Gordon L. Gano will be in charge of operation; pipe line will transport East Texas crude oil to Shreveport. 4-2

La., Shreveport—Ford, Bacon & Davis, Inc., Engrs., 39 Broadway, New York, have contract for oil pipe line from East Texas field to Shreveport for Arkansas Natural Gas Corp., Shreveport; J. H. Mobley, Ch. Engr., Shreveport. 4-2

La., Shreveport—Spartan Refining Co., Inc., Slattery Bldg., advises considering no extension to its refinery at present time, lately noted acquired Shreveport-El Dorado Pipe Line Co.'s properties; Atlas Pipe Line Co., Inc., Giddens-Lane Bldg., is constructing an 8-in. electric welded oil pipe line from East Texas oil fields to the Spartan Refining Co.'s Shreveport refinery. 3-26

La., Shreveport—Atlas Pipeline Co., Inc., 14th Floor, Slattery Bldg., advises construction on oil pipe line, from Longview, Tex., to Shreveport, La., calls for 8-in. electric welded line, distance of approximately 60 miles, with pumping station located south of Longview; are using pipe from Jones & Laughlin Steel Corp., Pittsburgh, Pa.; engines from V. I. Morris-DeLaVergne, Inc., Richmond & Norris Sts., Philadelphia, Pa.; and pumps from Worthington Pumping Machinery Corp., 2 Park Ave., New York City; will build an extensive gathering system in East Texas oil field. 3-26

Mo., Boonville—Missouri Power and Light Co., 231 S. LaSalle St., Chicago, Ill., reported, has been granted 14 yr. natural gas franchise

Mo., Kansas City—Tru-Way Mfg. Co., capital \$100,000, incorporated; O. K. Herndon, Pioneer Trust Bldg.; manufacture gasoline and allied products.

Mo., St. Louis—Monarch Petroleum Corp., incorporated; Orvol J. Cloughly, 66 Aberdeen Place.

Okla., Alluwe—Standard Pipe Line Co., care of Standard Oil Co. of Indiana, 910 S. Michigan Ave., Chicago, Ill., reported, has preliminary plans for 25 mile pipe line into oil fields; cost \$100,000.

Tex., De Leon—City plans voting on gas plant bonds.

Texas—Peoples Light & Power Corp., 40 Exchange Place, New York, advises San Angelo-Girvin gas line is being built by Trojan Engineering Corp., for subsidiary, Texas Public Service Co., Austin; line will be 120 miles long and consist of 43 miles of 8-in. Dresser coupled line from Texon to Girvin and 77 miles of 12-in. line from Texon to San Angelo; total cost \$1,300,000; construction started, completion by May 10; no compressor stations will be required; western branch of line is being built to serve Pecos Valley Power & Light Co.'s steam plant at Girvin on Pecos River; eastern branch will serve San Angelo steam plant of Southwest Texas Utilities Co. 3-19

Texas—N. A. Saigh Co., Exchange Bldg., San Antonio, reported, soon begin work on 8-in. pipe line from Rusk County fields to Douglas, Nacogdoches County, for Texas Pipe Line Co.

Texas—Continental Construction Co., Professional Bldg., Kansas City, Mo., let contract to Ford, Bacon & Davis, Inc., 39 Broadway, New York, for seventh and last section of its \$50,000,000 pipe line from Texas Panhandle to Chicago; this section will cover 155 miles and extends from Rock Island to Joliet, Ill.; completion by July 1; will use large amount of equipment consisting of 100 tractors, trucks, ditching machines, etc., to transport materials and place in position 45,000 to 50,000 tons of steel pipe and fittings; this section will be of 24-in. pipe and will cross the Fox River and Illinois-Mississippi drainage canal, connecting at Joliet with Chicago Belt Distribution system; will serve about 50 cities and towns. 3-12

Texas, Amarillo—Panhandle Steel Products Co., Burk Road, Wichita Falls, reported, has contract for several carloads of struc. steel for addition to natural gas pumping station near Amarillo.

Texas, Borger—Huber Pipe Line Co., incorporated; H. W. Price, Walter E. Varnes.

Texas, Dallas—Morgan Oil Corp. incorporated; Morgan H. Cox, 317 N. St. Paul St.

Texas, Dallas—Atomic Refining Co., capital \$25,000, incorporated; J. D. Kugle, Kirby Bldg.

Texas, Dallas—Trinity Oil Co., capital \$30,000, incorporated; N. G. Guiberson, 3804 Maplewood St.

Texas, Fairfield—Daniel Oil and Royalty Co., capital \$50,000, incorporated; J. B. Daniel, E. W. Tucker.

Texas, Fritch—George H. Siedhoff, Wichita, Kans., reported, has contract for construction of gas compressor plant at Fritch, 35 miles north of Amarillo in Panhandle field for Continental Construction Co., Professional Bldg., Kansas City, Mo., in connection with pipe line Texas Panhandle to Chicago; compressor plant will be designed to provide pressure behind a flow of natural gas through 1000 mile pipe line; will be equipped with 12 units of 1250 h. p. each. 1-29

Texas, Houston—Engleton Oil Co., incorporated; P. R. Rowe, Jr., 1729 Harold St.

Texas, San Antonio—Triangle Drilling Co., capital \$50,000, incorporated; W. R. White, 5310 Broadway.

Texas, Taylor—Taylor Refining Co. increased capital \$100,000 to \$300,00.

Texas, Wellington—City votes April 21 on \$80,000 gas distribution bonds.

Va., Martinsville—Martinsville Gas Co., incorporated; N. H. Gellert, Meadowbrook, Pa.

West Virginia—Ligon & Ligon, 3310 Ridge-wood Ave., Baltimore, Md., have contract with Columbia Gas & Electric Corp., 61 Broadway, New York, for excavating and laying 75 miles pipe line; section that company will lay extends from point about 7 miles from Hinton, W. Va., at New River, to Kentucky-West Virginia line at Tug River; line will be of 20-in. with Dresser couplings; will run through mountainous territory and will touch Mullins and Pineville and will run about 12 miles from Welch; about 150,000 yds. of excavation involved; pipe will be furnished through the Columbia organization; Ligon & Ligon have let subcontract to George Transfer Co., Inc., 1201 S. Paca St., Baltimore, for hauling of pipe. 2-12

West Virginia—Appalachian Gas Corp., F. R. Hurlburt, Sec., Union Trust Bldg., Charleston, offering \$1,000,000 convertible 6% debentures, initial series, through P. W. Chapman & Co., Inc., New York, and associates; upon completion of this financing company will own all of common stock of Monroe Consolidated Gas Co., which through its ownership of majority of outstanding shares of Carbons Consolidated, Inc., will own and operate natural gas properties in Monroe Gas field of Louisiana; these properties now supply natural gas to United Carbon Co.; proceeds to be used for acquisition of securities of Monroe Consolidated Gas Co. and for other corporate purposes. 9-25

Ice and Cold-Storage Plants

Ark., Searcy—Jake Koehler, Searcy, reported, has contract for ice plant for B. C. Huddleston, Searcy, and Vance Thompson, McCrory; daily capacity 15 tons; cost \$30,000.

Texas, Crystal City—Shippers Co-Operative Ice Co. incorporated; J. L. Price, W. A. Butler.

Texas, Rio Grande City—W. A. Velten Construction Co., West First and Fronton Sts., Brownsville, reported, has contract for ice plant for R. A. O'Neill, Alamo National Bank Bldg., San Antonio. 3-19

Land Development

Fla., Carrabelle—McKissack Properties, Inc., chartered; W. C. Kissack, R. Carlton.

Fla., Fort Myers—Beachmount Realty Co., incorporated; E. D. Beggs, F. A. Whitney.

Fla., Howey-in-the-Hills—Juci-Sweet Products, Inc., chartered; W. J. Howey, D. Taylor.

Fla., Jacksonville—Liberty Lands, Inc., Charles H. Sieg, Pres., Frank B. Wilson, V. P., acquired 80,000 acres in Clay, Volusia, and Putnam counties; will develop; general office of company Jacksonville, field office Cove Springs.

Fla., Jacksonville—Willetta Properties, Inc., chartered; C. C. McCubbin, Barnett Bldg.

Fla., Miami—Miami Shores Land Co., incorporated; C. Miller, 67 N. E. 53rd St.

Fla., Opa-Locka—Nile Farms, Inc., chartered; M. L. Ahl, W. G. Merritt.

Fla., Orlando—Orlando Nurseries, Inc., chartered; R. D. Mitchell, H. E. Wheeler.

Fla., Orlando—Brenge Land Co., incorporated; A. L. Beck, 1504 N. Mills St.

Fla., Orlando—L. A. Paulk Co., Inc., chartered; E. S. Bridges, Orlando Bk. & Tr. Bldg.

Fla., St. Petersburg—Wentworth & Wentworth, Inc., chartered; J. H. Lewis, 1230 15th Ave., N.

Fla., St. Petersburg—Ninth St. Realty Corp. incorporated; G. W. Fitch, 2900 First Ave., N.

Fla., Tampa—Friday & Larman, Inc., chartered; E. I. Friday, 1414 Eighth Ave.

Fla., Tampa—R. C. Robbins, Inc., chartered; D. White, 2915 23rd Ave.

Fla., Winter Haven—Florante Groves, Inc., chartered; C. S. Taylor, G. Plumb.

Md., Upper Marlboro—Prince George County will probably expend \$800,000 bonds for development of parks. See Financial News Column.

Md., Rockville—Montgomery County will expend \$1,300,000 bonds for parks. See Financial News Column.

Mo., St. Louis—Albach Armbruster Realty Co., Inc., incorporated; Frank A. Armbruster, 5025 S. Broadway.

Mo., St. Louis—West Belle Holding Corp., Title Guaranty Bldg., capital \$25,000, incorporated; Esther G. Mandill, St. Louis, Mo.; Isadore Getzler, New Orleans, La.

N. C., Morganton—Mimosa Golf Club, Inc., capital \$20,000, incorporated; B. Bristol, S. R. Collett.

N. C., Mount Airy—Green Hill Lakes, Inc., chartered; E. G. Smith, D. C. Proctor.

N. C., Troy—Nance Real Estate, Inc., incorporated; I. C. Nance, C. N. Smitherman.

Texas, San Antonio—Athenis Realty Co., capital \$100,000, incorporated; John Anthony, 103 W. Elsmere St.

Texas, San Benito—E. C. Sams, Pres., J. C. Penney Co., Inc., 330 W. 34th St., New York, reported, develop tract of land between San Benito and Brownsville.

Va., Norfolk—Edgewater Drive Residence Corp., capital \$25,000, incorporated; H. W. Johnson, 1001 Cambridge St.

Lumber Enterprises

Fla., Jacksonville—Florida-Louisiana Red Cypress Co., organized to market entire cypress output of following mills: Wilson Cypress Co., Palatka; Putnam Lumber Co., Shamrock; Cummer Cypress Co., Lacombe and Brooks-Scanlon Corp., Foley, all of Florida and A. Wilberts' Sons, Plaquemine, La.; combined production of these mills is about 125,000,000 ft. annually; timber is obtained from swamps of St. Johns, Sewanee and Wicliacoochee rivers in Florida and Atchafalaya river in Louisiana; J. F. Wigginton, 1839 Calhoun St., New Orleans, is president and M. L. Fleishel, Shamrock, Treas.; company will maintain offices 300 Madison Ave., New York, in charge of Martin C. Hughes; branch office in Poydras Bldg., New Orleans, La., in charge of G. A. Breaux.

Fla., Jacksonville—F. S. Buffum Co., Inc., capital \$50,000, incorporated; D. E. Robins, 502 Main St.

Fla., Mount Dora—Mount Dora Crate & Supply Co., capital \$25,000, incorporated; D. S. Simpson, E. F. Morrow.

Fla., Sanford—United Lumber Co., Inc., chartered; K. Toll, I. W. Hawkins.

Miss., Vicksburg—Houston Brothers Lumber Co., George T. Houston, Pres., Walter St., reported, plans rebuilding burned portion of lumber mill.

N. C., Hendersonville—Republican Lumber Co., capital \$500,000, incorporated; S. F. Eichner, Nona Jordan.

Mining

La., Thibodaux—All States Production Co., subsidiary of E. I. duPont de Nemours Co., Wilmington, Del., reported, leased salt dome about 6 miles from here; will develop for sulphur and other minerals.

Mo., Poplar Bluff—Southern Mining Co., Joplin, reported, reopen and develop Keener iron mine, 12 miles north of Poplar Bluff.

Texas, San Angelo—American Nitrate Co., Inc., chartered; W. M. Noelke, Rice P. Lynn.

Texas, Waco—Texas Sand & Gravel Co., Amicable Bldg., increased capital, \$75,000 to \$120,000.

Miscellaneous Construction

Arkansas—U. S. Engr. Office, P. O. Box 667, Yicksburg, Miss., let contracts for approx. 1,765,000 cu. yd. levee, Arkansas River; Pendleton Enlargement, 155,000 cu. yd., R. A. Stevenson, Dumas, 19.42 cents per cu. yd.; Davis Lake Levee, 375,000 cu. yd., Clarke Bros. Construction Co., Clinton, Ia., at 15 cents per cu. yd.; Medford New Levee, 560,000 cu. yd., same firm, 21 cents per cu. yd.; Medford Enlargement, 375,000 cu. yd., Canal Construction Co., McCall Bldg., Memphis, Tenn., 28.02 cents per cu. yd. 3-19

Fla., Tampa—City, R. H. Cason, City Engr. completed tentative plans for improvements to cost \$400,000, subject to approval of Bd. of Aldermen, for fiscal year, beginning in June, including constructing sheet piling and fill protection for Bayshore Blvd. seawall, Magnolia to Rome Ave., \$40,000.

Louisiana—McWilliams Dredging Co., Canal Bank Bldg., New Orleans, reported, has contract for 300,000 cu. yd., Jackson back protection levee of Comms. of Lake Borgue Basin Levee Dist., New Orleans Court Bldg., New Orleans; contract with Wills Construction Co., 6029 Clemens Ave., St. Louis, Mo., reported, canceled. 3-19

La., Lake Charles—Lake Charles Harbor & Terminal Dist., voted \$700,000 bonds. 2-26

La., New Orleans—Bd. of Comms. of Port of New Orleans, New Orleans Court Bldg., has low bid from Concrete Construction Co., at \$54,088, for conc. slabs, footings and incidental work on levee at Bineville St. 3-26

La., New Orleans—Bd. of Comms. of Port of New Orleans, New Orleans Court Bldg., opens bids Apr. 15 for furnishing and erecting steel framing for city delivery shed and office at Bineville St. wharf, 425 tons.

Miss., Hattiesburg—City, Mayor and Bd. of Comms., has low bid from T. P. Crymes, Adeline St., Hattiesburg, for conc. wading pool and conc. culverts and bridge, Kamper Park. 3-26

Mo., Kansas City—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, reported, let contract for 3,000,000-bu. addition to Kansas-Missouri elevator, operated by Hall-Baker Grain Co., Board of Trade Bldg., member of Farmers' National Grain Corp., and 750,000-bu. addition to Eagle elevator, on lease by Vanderslice-Lynds Grain Co., Board of Trade Bldg.; construction to start at once.

Mo., Kansas City—Kansas City Southern Ry. Co., A. N. Reece, Ch. Engr., reported, has under advisement plans to enlarge 1,100,000-bu. elevator, operated by Moore-Seaver Grain Co., Board of Trade Bldg.

Mo., Kansas City—Chicago, Burlington & Quincy R. R. Co., A. W. Newton, Ch. Engr., Chicago, Ill., reported, erect 1,000,000-bu. addition to 2,500,000-bu. grain elevator.

Mo., Kansas City—Atchison, Topeka & Santa Fe Ry., G. W. Harris, Ch. Engr., Chicago, Ill., reported, may enlarge 6,000,000-bu. grain elevator.

S. C., Charleston—Bureau of Yards and Docks, Navy Dept., Washington, construct ship ways at Navy yard with yard labor. 3-12

Tex., Beaumont—City, P. Millard, Sec., reported, take bids about May 5 for rein. conc., timber loading and unloading wharf, including complete loading and unloading machinery; 36x110 ft. 2-26

Tex., Orange—Lutch Stark Boys and Girls, Inc., H. J. Lutch Stark, secured option on Old Spanish Trail swimming pool and grounds, 2 mi. from city; tentative plans call for chlorination of water to come from 4-in. artesian well, 650 to 700 ft. deep; pool to be 120x60 ft.; about 4½ acres will be developed for 12-cabin tourist camp, playground, restaurant, bandstand, tennis courts, pavilion, etc. 3-26

Va., Fort Monroe—Corps Area Engr., Headquarters Third Corps Area, 311 St. Paul St., Baltimore, Md., let contract to Alsop & Peirce, First National Bank Bldg., Newport News, Va., at \$12,252, for extending Mine Wharf. 3-26

Va., Portsmouth—Norfolk Navy Yard, R. D. Spalding, Public Works Officer, has low bid from J. Lawrence Smith, Building & Loan Bldg., Portsmouth, at \$25,904, for conc. pier, Norfolk Naval Hospital. 3-26

Va., Richmond—City, Dept. of Public Works, R. K. Compton, Director, completed plans for addition to city wharf and will call for bids by Apr. 15; wharf addition, about 250x220 ft., conc., and 300 ft. of timber construction; warehouse; sidetrack; paving in front of warehouse and dock; to be let under separate contracts. 3-12

West Virginia—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, let contract to Waugh Bros. Co., Fayetteville, for second track and conversion of Popes Nose tunnel into open cut, between Cotton Hill and Gauley, \$366,000. 3-19

Miscellaneous Enterprises

D. C., Washington—Dept. of Commerce, Bureau of Standards, are issuing proposals now for 2 sections of steel pipe 8 ft. in diam., lengths totalling about 28 ft. and including two 45 degree bends, also for 2 sections of pipe 3 ft. in diam., the lengths totalling about 40 ft. and including three 45 degree bends; welded flanges are included for installation in National Hydraulic Laboratory; bids opened April 18; will soon issue proposals for 19 special pipe fittings and sections of pipe to be constructed of welded steel plate the diam. ranging from 1 2to 30 in. See Want Section—Bids Asked. 3-19

Fla., Daytona Beach—Daytona Beach Sun Record Co., 410 Magnolia St., J. Rodgers Gore, Editor, let contract to Mergenthaler Linotype Co., 29 Ryerson St., Brooklyn, N. Y., and Goss Printing Press Co., 1535 S. Pauline St., for printing press, linotypes, stereotype equipment, etc. 4-2

Fla., Jacksonville—Paramount Cleaners & Dyers, Inc., chartered; H. Silverstein, 1631 Acosta St. 3-19

Fla., Jacksonville—Sunshine Bakeries, Inc., chartered; E. H. Trussler, 1170 McDuff Ave. 3-19

Fla., Orlando—Orlando Exchange Building, Inc., chartered; C. L. Gray, 60 N. Court St.; contracting. 3-19

Fla., Orlando—Peninsular State Publishing Co., Josiah Ferris, Sr., Pres., publish Orlando Daily News. 3-19

Fla., Palm Beach—Gulf Stream Builders, Inc., capital \$25,000; incorporated; J. Y. Arnold, Murray Bldg. 3-19

Fla., Plant City—Hillsboro Laundry Co., Inc., chartered; S. O. Weaver, H. T. Capers. 3-19

Fla., St. Augustine—San Marcos Contracting Co., incorporated; F. L. Avril, 22 Central Ave. 3-19

Fla., St. Petersburg—St. Petersburg Citizen Publishing Co., incorporated; G. W. Hopkins, 705 17th Ave., N. E. 3-19

Georgia—Department of Agriculture, Washington, D. C., plans establishing naval stores laboratory in either Georgia or Florida, for which Congress appropriated \$40,000; plans contemplate erection of still building in which will be housed 4 different types of stills, including fire still, steam still, continuous still and vacuum still; several types of condensers for turpentine and turpentine separators; in addition a boiler house, machine shop, water supply, turpentine storage tanks, copper shops, rosin sheds, watchman's and stiller's house and office building, all of permanent type, will be provided. 3-19

Ga., Macon—Chas. W. Jones & Sons, Grand Bldg., has contract for coffee mill addition for Birdsey Flour Mill on Poplar St.; stone tile construction, 2 story, 80x42 ft. 3-19

Ga., Tifton—Imperial Tobacco Co., 422 E. Franklin St., Richmond, Va., reported, let contract to W. H. Spooner, Tifton, for construction of 2 buildings; conc. floors; brick walls; comp. roof. 3-19

Ky., Louisville—Louisville Color Gravure Co., capital \$25,000, incorporated; Wm. G. Simpson, St. James Apt. 3-26

Ky., Louisville—Limerock Asphalt Co., capital \$25,000, incorporated; Joseph M. Hayse, Equitable L. & C. Bldg. 3-26

La., Baton Rouge—A. C. Stewart, 810 E. Blvd., Baton Rouge, reported, low bidder for 2 story, rein. conc. and brick creamery for Louisiana Creamery Co., Inc. 3-26

La., Morgan City—Assn. of Commerce, negotiating with May Trailer Co., for establishing of plant; erect steel and conc. building. 3-26

La., New Orleans—Jack Cohen, 2313 Millam St., reported, establish women's dress manufacturing plant, to be operated as Ritzy Mfg. Co.; has leased building; install machinery. 3-26

La., New Orleans—Charles Melhado, 7513 Hampson St., Pres., Thermolar, Inc., plans manufacture of new type of heating plant without boiler or furnace. 3-26

Md., Baltimore—Eriessson Line, Inc., Pier 1, Light St., formed to take over service formerly operated by Baltimore & Carolina Line, Inc., and Baltimore and Philadelphia Steamboat Co., between Baltimore and Philadelphia; present terminals of Baltimore & Philadelphia Steamboat Co., will be used; A. H. Bull & Co., Inc., Gen. Agts., General Office 115 Broad St., New York, and Pier 5 Pratt St., Baltimore; no immediate expenditures for new equipment contemplated; will maintain daily service between Philadelphia and Baltimore, Chester, Chesapeake City and Berterton. 4-2

Md., Baltimore—Samuel G. Imwold, 5501 Hillen Road, construct 1 story, 60x25 ft., conc. block milk plant, 5501 Hillen Rd.; cost \$10,000; owner builds. 4-2

Md., Baltimore—Window Shopping, Inc., 1203 American Bldg., incorporated; H. Rank Bickel, Jr., Robt. F. Skutch, Jr.; advertising. 4-2

Md., Curtis Bay, Baltimore—Treasury Dept., F. A. Hunnewell, Constructor, U. S. Coast Guards, Supt. of Construction and Repair, Washington, D. C., have drawings in course of preparation for proposed boat shop building at U. S. Coast Guard Depot, Curtis Bay; bids for work will probably be called for within next two weeks. 4-2

Mo., Bagnell—Andrew Ellison, Rialto Bldg., Kansas City, reported, granted permission to operate ferry across lake being formed by Bagnell Dam to point below Hurricane Deck. 4-2

Mo., Carthage—L. H. Reck, reported, establish casket plant in Woodward Bldg., Lyon and Sixth Sts.; will move equipment of Davis Sash & Door Works, Neosho. 4-2

Mo., Jefferson City—D. M. Oberman Mfg. Co., T. Oberman, reported, install 50 additional machines at West End factory. 4-2

Mo., Kansas City—L. W. Spengler Construction Co., incorporated; L. W. Spengler, N. Y. Life Bldg. 4-2

Mo., Kansas City—Heating Equipment Co., incorporated; Melvin A. Disney, 4631 Madison St. 4-2

Mo., Kansas City—Collins Construction Co., Davidson Bldg., reported, has contract for dairy for Summe Dairy Co., 4515 E. Twenty-seventh St.; brick and rein. conc., 2 story, part basement; contract for heating and plumbing let to Geo. R. Jorgensen Plumbing & Heating Co., 3313 E. Fifteenth St. 2-5

Mo., Kansas City—O'Brien & Fleming Mfg. Co., incorporated; Frank Fleming, 3210 E. 13th St.; manufacture fruit juice extractor. 2-5

Mo., Kansas City—Barnett & Roniel Optical Co., incorporated; W. A. Barnett, 20 E. Winthrop Rd. 2-5

Mo., St. Louis—Speedo Corp., Liberty Central Trust Bldg., incorporated; O. S. Van Delseen, J. C. Mayfield; soft drinks. 2-5

Mo., St. Louis—E. S. Garvey, 1617 N. Seventh St., reported, let contract to W. C. Harting Construction Co., 712 Chestnut St., for 1 story manufacturing plant, 4379 Duncan St. 2-5

Mo., St. Louis—Scientific Engineering Co., incorporated; F. C. Bretsnyder, 2116 Alice St. 2-5

N. C., Asheville—Hughey Co., incorporated; R. Lee Greenwood, 616 Merriman Ave.; cleaning. 2-5

Mo., St. Louis—Husrem Cream Products Co., Inc., capital \$20,000, chartered; Thos. L. Remley, 7157 Westmoreland St. 2-5

Mo., St. Louis—Service Electrotypes Co., capital \$24,000, incorporated; John Van Lund, 3923 Fairview St. 2-5

Mo., St. Louis—Rex Cigar Co., incorporated; Wm. Rieke, 4210 Red Bud St. 2-5

N. C., High Point—Southeastern Advertising Agency, Inc., merger between Bennett-Williams Co., Inc., High Point, and Praig Advertising, Lynch Bldg., Jacksonville, Fla. 2-5

N. C., Lexington—Sunlight Laundry, Inc., capital \$100,000, incorporated; F. W. McPherson, Fred P. Ingram. 2-5

N. C., Salisbury—Stanback Medicine Co., Spencer, reported, remove manufacturing plant to S. Fulton St., Salisbury. 2-5

Okla., Tulsa—Texas Co., Philtower Bldg., and Chrysler Bldg., New York City, reported, started work on construction of chemical plant; will manufacture caustic soda, chlorine gas, bromide gas, etc. 2-5

S. C., Anderson—Browne Publishing Co., capital \$15,000, incorporated; G. Paul Browne, R. J. Ramer. 2-5

South Carolina—State Highway Dept., Ben M. Sawyer, Ch. Commr., reported, let following contracts: to H. P. Little & Son, Conway, for maintenance shop at Darlington; Tucker & Sikes, Monroe, N. C., for maintenance shop at Edgefield and Florence; Mimmons-Adams Lumber Co., Seneca, for shop at Seneca; all bids rejected on watchman's houses at Santee River and Sampit River. 2-5

S. C., Greenville—Greenville Mattress Co., incorporated; O. B. VanWyck, 9 Hyde St. 2-5

S. C., Kingstree—H. O. Jones, Sec. Chamber of Commerce, remodel plant for dairy products; brick or sheet metal, conc. floor; daily output 4000 to 12,000 lbs. whole milk; install milk plant equipment; receiving bids for entire equipment for cooling and storing 4000 to 12,000 lbs. whole milk daily, separating 2000 lbs. and other like equipment. See Want Section—Machinery and Supplies. 2-5

Tenn., Nashville—John Deere Plow Co., Moline, Ill., reported, construct warehouse and assembly plant, Eighth Ave., S., and Fogg St.; cost \$85,000. 2-5

Tex., Austin—Trojan Engineering Corp. of Texas, incorporated; M. H. Goldsmith, 507 Oakland St. 2-5

Tex., Corpus Christi—Nueces Construction Co., capital \$50,000, incorporated; H. S. Wilder, 325 Merrill Drive. 2-5

Tex., Dallas—Irving Knight, Inc., chartered; Austin C. Bray, 5626 Victor St.; building. 2-5

Tex., El Paso—Dorrance D. Roderick, 2727 Copper St., reported, acquired Morning and Sunday Times. 2-5

Tex., El Paso—El Paso Evening Post, reported, acquired El Paso Herald; will be published as El Paso Herald-Post. 2-5

Tex., Fort Worth—Crystal Laundry Co., Inc., capital \$30,000, incorporated; W. E. McMin, 3200 Fitzhugh St. 2-5

Tex., Houston—Harris County Comms. reported, plan constructing ferry boat for proposed Goose-Creek-Morgans Point Ferry; cost \$50,000. 2-5

Tex., Houston—Brown Cracker & Candy Co., 1228 Baker St., will probably rebuild burned warehouse. 2-5

Tex., Longview—M. L. Bath Co., incorporated; Michaels L. Bath, Jos. S. Birch; publishing. 2-5

Tex., San Antonio—Southern Casket Co., incorporated; V. G. LeLaurin, 218 Wicks St. 2-5

Tex., San Antonio—Sherry's, Inc., chartered; O. W. Martin, 1431 S. St. Marys St.; creamery. 2-5

Va., Charlottesville—Piedmont Publishing Co., Inc., chartered; T. Munford Boyd. 2-5

Va., Claremont—Turner & Co., P. O. Box 137, P. R. Turner, Pres., acquired Claremont-Marl Co., Eureka Marl Co. and properties of Tidewater Lime & Fertilizer Co.; also leased Miller-Marline Co.; company produces marl, agricultural lime and soil compound. 2-5

Va., Norfolk—Warbro Corp., capital \$50,000, incorporated; Alex Warren, Raines City, Fla.; operate steamships, etc. 2-5

Va., Norfolk—Atlantic Laundry, Inc., capital \$50,000, incorporated; Jeff Hofheimer, 225 City Hall Ave. 2-5

Va., Portsmouth—Proctor & Gamble Co., Ivorydale, Cincinnati, O., reported, completed negotiations for plant of Portsmouth Cotton Oil Refining Co., manufacture cooking fat from cottonseed oil, produces hydrogenated oil, soap stock, etc. 3-5

Va., Richmond—Catholic Virginian Press, Inc., capital \$15,000, chartered; A. J. Brennan, 800 Cathedral Place, to acquire and publish Virginia Knight Magazine. 3-5

Va., Richmond—Virginia Baking Co., Inc., Ninth and Perry Sts., increased capital, \$32,000 to \$182,000. 3-5

Va., Waynesboro—Directional Signal Corp., capital \$50,000, incorporated; Lee T. Carpenter, Greenwood. 3-5

Motor Bus Lines and Terminals

Fla., Jacksonville—Georgia-Florida Freight Lines, Inc., chartered; C. G. Schultz, 3687 Hedrick St. 3-19

Louisiana—Leonard Truck Lines, Baton Rouge, filed application with Louisiana Public Service Comsn. for permission to extend bus 3-19

line; operate between Campti to Creston, from Creston to Arcadia, Couthatta to Ashland and from Ashland to Friendship.

Mo., Kansas City—Arrow Transfer and Storage Co., incorporated; Geo. Kathrens, 3834 Main St.

Mo., St. Louis—Frederick Smith, Pres. Smith Motor Coach Co., 144 N. Front, Memphis, Tenn., reported, acquired interest in newly formed Dixie Greyhound Lines, Inc., a consolidation of Greyhound lines running from St. Louis to points in Missouri, Arkansas, Tennessee, Mississippi and Alabama.

Tex., Beaumont—J. W. Paul, Jr., applied to State Railroad Comsn. for permission to operate truck line between San Augustine and Beaumont via Jasper.

-Tex., Corpus Christi—Red Ball Fast Motor Freight Lines, incorporated; L. C. Curry, 1715 Morgan St.

W. Va., Piedmont—Westernport Transit Co., Frostburg, Md., reported, granted permission by State Road Comsn., Charleston, to operate buses between Piedmont and Keyser.

Railways

D. C., Washington—Arlington Memorial Bridge Comsn., Navy Bldg., has low bid from Marye & Blankenship, Shawsville, Va., for grading incident to relocation of Rosslyn branch of Pennsylvania R. R.

Florida—See Norfolk, Va.

Ky., Louisville—Kentucky & Indiana Terminal R. R., W. S. Campbell, Mgr. & Ch. Engr., ordered from General Railway Signal Co., Rochester, N. Y., table interlocker, 11 levers, 10 signals and 8 switch machines for Walnut St.

Mo., St. Charles—Wabash Ry. Co., W. R. Bennett, Ch. Engr., start removal of approx. 1,000,000 cu. yd. earth to make way for tracks leading to \$3,750,000 bridge now under construction; relocation of tracks will necessitate 60-ft. cut about 2000 ft. long, 3 mi. east of bridge site; A. R. Ross, Res. Engr.

North Carolina—See Norfolk, Va.

South Carolina—See Norfolk, Va.

Tex., San Angelo—Gulf & Texas Ry., subsidiary of Southern Pacific Co., R. W. Barnes, Ch. Engr., Lines in Texas and Louisiana, Houston, let contract to Monarch Engineering Co., 1146 Laurel St., San Antonio, for initial grade-separation structure which will start actual work on new lines, Fredericksburg to Brady and Edenton to San Angelo; contract for another structure to be built not yet let; building roadbed, excavation of cuts and making entire construction to cost \$6,000,000 to \$7,000,000; 30 mi. of track now being reconstructed, Leon Springs to Fredericksburg Junction; Fredericksburg & Northern R. R., from Fredericksburg Junction, on San Antonio-Aransas Pass line, to Fredericksburg also to be rebuilt; this sector has tunnel through rock hill, changing railroad from east to west side of Highway.

Va., Norfolk—Seaboard Air Line Ry. Co., L. R. Powell, Jr., Receiver, authorized to go forward with work involving approx. \$500,000 by order signed by Judge Luther E. Way, in U. S. Dist. Court, Norfolk, including relaying rails between Starke and Waldo, Fla., \$82,501; between McKinney and Rawlins, Va., \$30,675; job at Wilder, N. C., \$11,517; Franklinton to Wake Forest, N. C., \$73,279, and, Gross to Yules, Fla., \$68,171; tie plate projects for lines in Virginia, North Carolina, South Carolina, Georgia, Alabama and Florida, \$99,884; improving 50 gondolas, \$84,000.

Va., Richmond—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., authorized following construction projects in South: Enlargement and relining Lakes tunnel, Backbone, Va., \$306,000; double track bridge over Main St., Gordonsville, Va., \$105,200; installation of passing track, Terry Junction, W. Va., \$50,000; undergrade crossing, Midland, Ky., \$31,000; similar crossing with necessary grade revision, Fishersville, Va., \$29,100, and overhead crossing, Staunton, Va., \$29,000.

W. Va., Gilbert—Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., reported, will let contract in May for 14-mi. unfinished Guyan branch between Elmore and Gilbert to connect with branch line of Norfolk & Western, and line of New York Central.

10-17-29

Railway Shops and Terminals

Tex., Ennis—Southern Pacific Lines in Texas and Louisiana, R. W. Barnes, Ch. Engr., Houston, expending \$50,000 enlarging roundhouse to twice former size and building 100-ft. turntable, installing electrical equipment, etc.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Florida—State Road Dept., Robt. W. Bentley, Chmn., Tallahassee, plans 4.38 mi. conc., Naranja to Homestead, Proj. 909-C, Road 4-A, Dade County.

LOUISIANA—State Highway Comsn., Baton Rouge, opens bids Apr. 14 for 9 roads (grading, washed gravel ballast surfacing) in following counties:

Pointe Coupee—2.0 mi. Picayuneville Levee Highway, Route 30, Proj. No. A-33;
St. Charles—0.6 mi., Waterford Levee Highway, Route 30, L-33; 0.5 mi., Star Levee Highway, L-34;

St. James—1.7 mi., Winchester New Levee Highway, Route 30, L-35; 1.0 mi., College Point Levee Highway, P-40;

Plaquemines—1.1 mi., Fairview New Levee Highway, L-B-13;

Iberville—2.4 mi., Plaquemine Point Levee Highway, P-37;

St. John the Baptist—2.8 mi., Garyville Reserve Levee Highway, P-38;

Ascension—1.5 mi., Sugar House Point Levee Highway, P-39; 0.70 mi., Bowden Levee Highway, P-41.

La., Baton Rouge—State Highway Comsn., O. K. Allen, Chmn., Baton Rouge, opens bids Apr. 28 for washed and screened gravel, 40% sand-clay gravel, reef shell, clam shell, crushed limestone, slag and sand for dept. of maintenance during May, 1931.

MARYLAND—State Roads Comsn., L. H. Stuart, Sec., Baltimore, has low bids for 3 roads in following counties:

Harford—2.28 mi. macad. resurfacing, Emmorton road, Cont. H-112-42, T. B. Gatch & Sons, 5937 Belair Rd., Baltimore, \$38,895;

Frederick—7.29 mi. conc. shoulders, Jefferson Pike, F-173-611, M. J. Grove Lime Co., Lime Kiln, \$87,743;

St. Mary's—6.55 mi. gravel, Three Notch road, SM-78-84, De Luca Construction Co., Dundalk, Baltimore, \$39,276.

MARYLAND—State Roads Comsn., L. H. Stuart, Sec., Baltimore, opens bids Apr. 14 for 5 roads in following counties:

Charles—1.23 mi. gravel, Bel Alton-Chapel Point road, end of Cont. Ch-83 toward Chapel Point, Cont. Ch-100-82;

Dorchester—0.66 mi. conc., approaches to Vienna bridge, D-68-17;

Harford—2.24 mi. conc., Whiteford to Graceton, H-111-44;

Washington—1.96 mi. macad. resurfacing, Greencastle Pike, end of W-72, near Huyett to Cearfoss, W-87-62;

Worcester—1.94 mi. conc., Stockton-Virginia state line, W-93-12.

Md., Baltimore—Nathan L. Smith, Highways Engr., has low bids for street work: Grading Contr. 584, Jos. T. Byrne, 647 Dumbarton Ave., \$11,010; Sheet Asphalt Cont. 592, Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., \$27,659; Alley Cont. 143, Arundel Construction Co., 910 Trinity St., \$18,788.

Md., Baltimore—City, Nathan L. Smith, Highways Engr., opens bids April 15 for street work: Cement Conc. Contr. 594, 7800 sq. yd., Footway Contr. 119, 20,000 sq. yd.; Cement Conc. Contr. 595, 15,750 sq. yd.

Md., Towson—Baltimore County Commrs., Samuel Green, Roads Engr., opens bids Apr. 14 for street improvements: Group 1, Beechfield Ave., .34 mi. conc.; Group 2, Ohio Ave., .23 mi. conc., Louisiana Ave., .19 mi. conc.

Miss., Pascagoula—City Council adopted ordinance authorizing paving N. Pascagoula St.

Missouri—State Highway Comsn., T. H. Cutler, Ch. Engr., Jefferson City, build 5 mi. road, State Highway 5, to connect with proposed ferry across lake being formed by Bagnell Dam, Camden County.

Mo., Jefferson City—City Council, E. W. Jenkins, Mayor, decided to take immediate action to secure improvement of streets between car tracks in southern and western sections of city.

Mo., Jefferson Barracks—U. S. Veterans Bureau, Construction Div., Arlington Bldg., Washington, D. C., opens bids May 5 for scarifying and reshaping existing road and constructing and finishing complete new conc. pavement on service road, including cast iron pipe culvert and grading, U. S. veterans hospital.

Mo., St. Louis—City, Bd. of Public Service, has low bids for paving: Dunnica Ave., Vibrolithic conc., Skrainka Construction

Co., Security Bldg., \$12,715; Glasgow Ave., Vibrolithic conc., Perkinson Bros. Construction Co., 3237 Carter St., \$9073; Mardel Ave., asphaltic conc., Crean & Scott Construction Co., 1242 Sublette St., \$18,441; Robert Ave., asphaltic conc., Asphalt Paving Co., 1328 Sublette St., \$12,614 and \$12,878, 2 projects; Ulena Ave., asphalt, Central Paving & Construction Co., 5523 Manchester St., \$23,204; Nashville Ave., asphalt, Trinidad Asphalt Mfg. Co., 600 S. Tresa St., \$8681; Iowa Ave., Warrenite bitulithic, Granite Bituminous Paving Co., Rwy. Exch. Bldg., \$25,671; Mackling Ave., Amiesite, Webb-Stone Paving Co., 5103 Fyler St., \$40,068.

N. C., Charlotte—Mecklenburg County Highway Comsn. has low bid from Southern Asphalt Co. at 6.9 cents per gallon for applying asphalt to Beatty Ford County Home roads, 60,000 to 125,000 gal. asphalt. 9-25

N. C., Charlotte—City Council voted to build sidewalk between Church and Poplar St. and W. Fifth St. and lay sewer line, Derita road section to serve 5 houses.

N. C., Kitty Hawk—Constructing Q. M., Washington, D. C., has bid from Robt. G. Lassiter & Co., Raleigh Bank & Trust Bldg., Raleigh (only bidder) for roads at Wright Memorial.

Okla., Boise City—City resume paving, Logan, Main and N. Cimarron St.; Holland Sand & Gravel Co. has contract.

Okla., Woodward—State Highway Comsn., Sam R. Hawkes, Chmn., Oklahoma City, and Woodward County Commrs. plan expending \$100,000 grading, draining, State Highways 14 and 15.

S. C., Parris Island—Bureau of Yards and Docks, Navy Dept., Washington, D. C., has low bid from Samford Bros., Inc., 301 Washington Ave., Montgomery, Ala., at \$36,653, for paving rifle range road. 3-26

S. C., Parris Island—Bureau of Yards and Docks, Navy Dept., Washington, D. C., has low bid from Simons-Mayrant Co., Peoples Bldg., Charleston, at \$11,947, for resurfacing Blvd. De France. 3-26

Texas—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, plans 10 road projects and 2 bridges: Paving, Highway 14 around Corsicana, bids ordered; bridge, Highway 30, over South Concho River, Tom Green County, Cristoval, \$60,000, investigation of cost ordered; 5 mi. rock asphalt on conc. base, Highway 1, Tarrant County, between Death Crossing and Dallas County line, bids ordered taken at next meeting; relocation of Highway 34, Mansfield into Fort Worth, investigation ordered; bridge over Trinity River, Highway 34, and improving highway through Road Dist. No. 5, Kaufman County, State Engr. will make estimates of cost; rerouting Highway No. 111, Hallettsville to Edna, south side of Lavaca River to make more direct connection with Yoakum, taken under advisement; Highway 137, Gaines County, between Seminole and Seagraves, bids to be taken as soon as plans are complete; highway, Riviera, Kleberg County, to Raymondville, Willacy County, through Kenedy County, conditionally agreed to furnish 40% of cost, counties to bear remainder of cost; relocating Highway 53, Belton to Lampasas, Bell, Lampasas and Coryell Counties, taken under advisement; constructing storm sewers through Lagrange, Highway 44, under advisement; grading Highway 37 through Franklin County, under advisement.

Tex., Dallas—Dallas County, Chas. E. Gross, County Auditor, opens bids Apr. 20 for conc. paving, Gaston road, Dallas County Road Dist. No. 1, 3000 ft. long, 20 ft. wide; Hollins & Clinger, Dist. Engrs., Records Bldg.

Tex., Dallas—Dallas County, Charles E. Gross, County Auditor, opens bids Apr. 30 for conc. paving Industrial Blvd., 20 ft. wide, Cadiz St. to Westmoreland road; Rollins & Clinger, Dist. Engrs., Records Bldg.

Tex., Houston—Harris County, C. R. Halle, County Engr., completed plans for paving Crosby-Lynchburg road, \$200,000; widening pavement of La Porte road, \$215,000; completing plans for 1100-ft. bridge over Goose Creek, Camp Allen road, 80-ft. draw span, \$75,000.

Tex., Houston—City, J. M. Nagle, Engr., has low bids for street work: grading, graveling S. 75th St., Griswold Bros., 3840 Polk St., \$5215; 40-ft. extension on north side of Scott St. bridge over Brays Bayou, Albert Meyerson Co., 2119 McGregor St., \$2500; City Council approved plans for paving W. Gray St., 45 ft. wide, F. W. Turner, City Sec., soon call for bids.

Tex., Leakey—Real County defeated \$125,000 highway bonds.

Tex., Marshall—City, P. M. Herndon, City Sec., opens bids Apr. 14 for paving certain streets, 11,102 sq. yd. excavation, 12, 15, 18 and 24-in. pipe, conc. curb and gutter, 11,102 sq. yd. paving, sidewalk restoration.

VIRGINIA—State Dept. of Highways, C. S. Mullen, Ch. Engr., Richmond, has low bids for 7 roads, involving \$271,862, in following counties:

Spotsylvania—3.96 mi. conc., Route 31, F205AW&F22BW, Virginia Construction Co., Fredericksburg, \$48,982;

Wise—4.377 mi. macad. surface treatment, Routes 11 and 123, F-177DB1, M. S. Hudgins, 23 Second St., South Roanoke, \$33,253;

Princess Anne—4.42 mi. rock asphalt with conc. base and header, Route 500, F-463-G, F. J. McGuire, 39th St., Norfolk, \$120,843; 4.42 mi. rein. conc. pavement with conc. base and header, Route 500, F463G, Brooke Construction Co., Inc., Norfolk, \$107,693;

Fluvanna—1.17 mi. soil surface treatment, Route 32, F493E, C. A. Ragland, Louisville, N. C., \$16,681;

Wythe—1.18 mi. macad. surface treatment, Route 10, F-698-AB1, Haymes Construction Co., Chatham, \$56,686;

Caroline—0.492 mi. gravel, surface treatment, Route 38, F-705-AB, J. I. Hicks & Bros., Evinston, \$8564. 3-19

Va., Fort Monroe—Corps Area Engr., Headquarters, Third Corps Area, Baltimore, Md., has low bid from E. P. Lindsay, 1331 High St., Portsmouth, Va., for conc. road, Crips Park to anti-aircraft batteries, at \$6127, for reinforced and \$5724, not reinforced. 3-19

Va., Ft. Humphreys—Army Quartermaster has low bid from Boatright, Russell & Linton, Manassas, at \$12,273, for grading and sidewalks, N. C. O. area.

WEST VIRGINIA—State Road Comsn., Geo. E. White, Sec., Charleston, opens bids Apr. 21 for 13 roads and 2 bridges, involving approx. \$750,000, in following counties:

Fayette—2.55 mi. conc., Glen Jean to Mount Hope;

Grant—2.37 mi. conc., Germania to Bayard;

Mason—0.88 mi. grading, paving, approaches to Point Pleasant-Henderson bridge;

8.8 mi. cold tar surface treatment, Point Pleasant to Clifton;

Randolph-Tucker-Preston—175,000 ft. wire rope guard rail, between Pocahontas County line and Maryland state line;

Mineral-Hampshire-Grant—100,000 ft. wire rope guard rail, Northwestern Turnpike;

Mingo—5.96 mi. stone top course, Horsepen to Justice;

Jefferson—0.32 mi. conc., Kearneysville underpass;

Greenbrier—4.7 mi. grading, stone base and retreat, Lewisburg to Maxwellton;

Putnam—5.58 mi. gravel surfacing, Red House to Paradise;

Hardy—3.8 mi. grading, draining, shale surfacing, Wardensville to Hampshire County line; 11 mi. grading, draining, shale surfacing, Baker to Virginia state line;

McDowell—12.9 mi. cold tar surface treatment, Roderfield to Wyoming County line;

Cabell—bridge over Fudge's Creek, new floor system;

Upshur-Randolph—Ellamore bridge over Middle Fork River, substructure and superstructure, 190-ft. steel span.

Contracts Awarded

LOUISIANA—State Highway Comsn., O. K. Allen, Chmn., Baton Rouge, let contracts for 2 roads in following parishes:

Sabine—4.657 mi. conc. through Many, J. H. Reeves, Many, \$142,508;

Tensas—18.37 mi. Amiesite, between Azcema and St. Joseph, Nelson Bros., Columbian Mutual Tower, Memphis, Tenn., \$320,605. 3-26

Md., Sharpsburg—Quartermaster, Third Corps Area, 311 St. Paul Pl., Baltimore, let contract to American Paving & Contracting Co., Inc., 2525 Montebello Ave., Baltimore, at \$89,000, using Amiesite, for roads, Antietam Battlefield. 4-2

MISSISSIPPI—State Highway Comsn., Gus A. Draper, Engr., Jackson, let contracts totaling \$246,413 for 5 roads in following counties:

Panola—11.465 mi., Grenada-Memphis road, FAP 55-Reop., Part 3, Mike Harvey, Sardis, \$29,661; Part 4, J. A. Perdue Co., 1521 Linden St., Pine Bluff, Ark.;

Rankin—0.626 mi., Jackson-Florence road, FAP 162-Reop., Shurprine Construction Co., Canton, Miss., \$4696;

Stone—3.312 mi., Hattiesburg-Gulfport road, FAP 73-E, Bates & Gaddy, Wiggins, Miss., \$11,362;

Smith—4.116 mi., Forest-Raleigh road, FAP 203-B, Clark & McCaa, Jackson, \$24,167;

Lee—5.395 mi., Tupelo-Baldwyn roads, FAP 215-A, J. A. & H. E. Pigford, Russell, \$60,984. 3-26

TEXAS—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, let contracts totaling \$1,811,221 for 15 roads and 15 bridges in following counties:

Waller—9.8 mi. conc., Highway 6, Lacy Paving Co., Burt Bldg., Dallas, \$187,407;

Kaufman-Dallas—10.6 mi. conc., Highway

15, Dexter Construction Co., Love Field, Natl. Dallas, \$196,140;

Cooke—11.3 mi. grading, draining, Highway 5, D. H. Purvis & Sons, Texas Natl. Bank Bldg., Fort Worth, \$49,347;

Motley—12.7 mi. grading, draining, Highway 18, Huddleston Construction Co., Crosbyton, \$52,033; South Pease and Dutchman River bridges, Highway 18, W. W. Vann, Mercedes, \$40,722;

Haskell—15.3 mi. grading, draining, Highway 51, D. H. Purvis & Sons, \$26,637;

Dallas—6.4 mi. conc., Highway 114, Central Bitulithic Co., Praetorian Bldg., Dallas, \$175,336;

Ector—9.3 mi. caliche base and surface course with triple asphalt surface treatment, Highway 137, E. R. Leach, Dallas, \$72,369;

Brazos—2.1 mi. grading, draining, Highway 90, R. B. Sparks, 225 N. Brighton St., Dallas, \$7337;

Hill—bridge over White Rock Creek, Highway 6, J. B. Clardy, 1109 Park St., Fort Worth, \$9748;

Refugio—overpass, intersection Highway 113 with St. Louis, Brownsville & Mexico R. R., C. W. Gillfillan, 33 Enfield Road, Austin, \$20,536;

Upton—2 rein. conc. bridges, Highway 99, Municipal Engineering Co., Inc., Athletic Bldg., Dallas, \$28,872.

Victoria—14.6 mi. conc., Highway 29, Russ Mitchell, Inc., Petroleum Bldg., Houston, \$253,947;

Haskell—14.3 mi. conc., Jones County line to Haskell, L. E. Whitham & Co., 804 E. Fourth St., Austin, \$232,924;

Guadalupe—7.3 mi. conc. base with limestone rock asphalt surface, Highway 3-A, Brown & Root, Norwood Bldg., Austin, \$139,964;

Brazos—7.5 mi. grading, draining, Highway 21, grading, small structures, D. H. Purvis & Sons, Texas Natl. Bldg., Fort Worth, \$69,566; large drainage structure, John F. Buckner, Cleburne, \$18,332;

Hall—14.6 mi. grading, draining, Highway 18, E. T. Prater, Memphis, \$30,834;

Cherokee—7.1 mi. grading, draining, Highway 40, C. E. Deal, Waller, \$56,401;

Denton—8.6 mi. gravel base course with triple asphalt surface treatment, Highway 40, Lone Star Construction Co., Milam Bldg., San Antonio, \$67,008;

Concho—3820 ft. bridging, 2 rein. conc. bridges, Highway 9, and approaches, Crouch & Nolan, Strawn, \$27,207;

Leon—1.8 mi. bridges and approaches, High 43, 5 steel, conc. and treated timber bridges, small structures, J. D. George, Donna, \$20,893; large structures, E. S. Petrus, Montgomery, Ala.; 5 steel and conc. bridges, Highway 43, award held up;

Lamar—462 ft. bridges and approaches, Highway 39, steel, conc. and treated timbers, E. R. Leach, Dallas, \$13,903. 3-26

Va., Rosslyn—Arlington County Supvrs., C. L. Kinnier, County Engr., let contract to Northern Virginia Construction Co., at \$23,32, for widening Frazier Ave., Clarendon.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

D. C., Washington—Dist. Comms. let contract to Ligon & Ligon, 3319 Ridgewood Ave., Baltimore, Md., for Central Ave. service sewer; Charles R. Guthrie, for Hobard Rd. service sewer; W. F. Brenizer Co., 101 New York Ave., N. W., for Young-Brown High School sewer.

Fla., Tampa—City, R. H. Cason, City Engr., has tentative plans for improvements, including storm sewer at Comanche and Florida Ave., cost \$44,000; Tyler St. storm sewer, cost \$24,000; storm sewers serving Ybor City, \$100,000.

Ky., Fort Thomas—W. L. Halley Co., 314 Fourth Ave., Nashville, Tenn., reported, has contract at \$23,700 for sewage disposal plant, Imhoff tanks, etc.

Ky., Owensboro—City, reported, construct all lateral sewers connecting unsewered section of city with the \$1,200,000 trunk line sewer to be built by city over period of several years; Arthur Consoer, Const. Engr., 205 W. Wacker Drive, Chicago, Ill.; plans to be prepared soon; cost about \$200,000.

Md., Baltimore—Bd. of Estimates authorized Milton J. Ruark, Sewerage Engr., to call for bids for construction of 3 section storm water drain for Stony Run from Sisson St., distance of 470 ft.; cost \$40,000, bids opened April 15; Storm Water Contract 163.

Md., Baltimore—John Matricciana, 229 S. Exeter St., low bidder at \$33,898 for sewers, Sanitary Contr. No. 264. 3-26

Md., Cambridge—City may install sewerage disposal plant. See Financial News Column.

Mo., Springfield—City defeated \$700,000 storm and sanitary sewer bonds. 3-5

Mo., St. Louis—Bd. of Public Service receives bids April 21 for constructing Section B-3, Western Hill Creek Public Relief Sewer.

N. C., Charlotte—See Roads, Streets and Paving.

Okla., Wewoka—City may vote on \$45,000 sewerage system bonds.

Tex., Houston—Following contracts let: Ricker Construction Co., Inc., 7909 Brazoo St., for storm sewers on Michaux, Merrill and Omar Sts., at \$11,387; Knutson Construction Co., Union Natl. Bank Bldg., to build 2 conc. aerating tanks for North Side sewage disposal plant, at \$20,557; Elder Construction Co., 4714 Jack St., for sewer. 3-12

Tex., Kilgore—See Water Works.

Tex., Linden—See Water Works.

Va., Newport News—City, reported, considering establishment of sewage treatment plant.

Telephone System

Ky., Lexington—Clarence R. Cummins, Williamsport, Pa., applied to Federal Radio Comsn., Washington, D. C., for permission to establish radio broadcasting station; will be operated by corporation to be formed under name of Community Radio.

Mo., St. Louis—Radio Station KNOX, Nelson R. Darragh, Pres., W. H. West, Ch. Engr., applied to Federal Radio Comsn., Washington, D. C., for permission to construct television broadcasting station; leased space in new St. Louis Mart Bldg., for broadcasting station. 3-12

Textile Mills

Albert L. Moise, Suite 1104, Land Title Bldg., Philadelphia, Pa., wants building for client, to be used as tapestry mill; building to be from 50 to 65 ft. in width and have from 15,000 to 20,000 sq. ft. floor space; posts either 8 ft., 16 ft. or 24 ft. apart running lengthwise of the building and in width about 21 ft. apart; ceilings at least 16 ft. high; may be located in either Delaware, Maryland, North Carolina or South Carolina.

Ga., Austell—A. K. Adams & Co., Engineers-Builders, 542 Plum St., N. W., Atlanta, advises following sub-contracts let to date on Clark Thread Co.'s project: Roofing and sheet metal, L. M. Leathers, Athens; struc. steel, McClintic-Marshall Corp., First Natl. Bank Bldg., Charlotte, N. C.; castings, Rome Machine & Foundry Works, Rome; miscellaneous and ornamental iron, Cole Iron Works, 1272 Murphy Ave., S. W., Atlanta; limestone, Ingalls Stone Co., Bedford, Ind.; granite, E. H. France, 1015 Fifth St., Macon; lumber, J. M. Griffin Lumber Co., Holopaw, Fla.; timbers, Homer Williams, Thomasville; maple, Holt Hardwood Co., Oconto, Wis.; creosote material, Southern Wood Preserving Co., East Point; ZMA Lumber, Eppinger & Russell Co., Talleyrand Ave., Jacksonville, Fla.; brick, Dalton Brick Co., Dalton; slag, Birmingham Slag Co., Comer Bldg., Birmingham, Ala.; cement, Universal Atlas Cement Co., Brown-Marx Bldg., and Southern Cement Co., American Trust Bldg., both Birmingham, Ala.; all excavation and conc. footing on building completed; steel erection started with completing of frame in about 3 decks; brick work on warehouse under way. 3-19

Ga., Columbus—Bibb Mfg. Co., Main St., Macon, reported, install 1500 looms; manufacture broadcloth.

N. C., Asheville—E. J. Tyler, 25 Clinton St., reported, has contract for mill building for Asheville Hosiery Mills; conc. foundations; brick; steel; comp. roofing; work to start at once. 3-19

N. C., Ellenboro—Ellenboro Mfg. Co., reported, increase capacity of rayon bedspread plant; install 28 looms and dyeing machinery.

S. C., Anderson—Townsend Lumber Co., reported, has contract at \$150,000 for rebuilding entire roof on Appleton Mills; work includes removing sawtooth roof over weave shed and replacing same with sawtooth insulated roof, using steel sash with wire ribbed glass for skylights, also replacing spinning mill roof; entire project under supervision of J. E. Sirrine & Co., Engrs., Greenville.

S. C., Gaffney—Alfred Moore, Wellford, reported, acquired Globe Mfg. Co.

N. C., Gastonia—Merger, reported under consideration, subject to meeting of directors, April 14, of number of combed yarn mills, including those known as Gray-Separk, Armstrong-Winget and A. G. Myers groups and certain mills under management of R. Grady Rankin and W. F. Rankin, new company will be known as Textiles, Inc., with capital of \$10,000,000.

S. C., Blacksburg—Charles S. Williams, of Gastonia Textile Machinery Co., Gastonia, N. C., reported, acquired Blacksburg Spinning Mill.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

D. C., Washington—Dist Commrs. rejected bids for water mains, bids opened Mar. 23. 4-2

Ga., Thomasville—City, D. R. Pringle, Supt., Water Works, has plans by Wiedeman & Singleton, Engrs., 1404 Candler Bldg., Atlanta, for water softening plant; cost \$50,000; conc. tanks, mixing chamber, etc.; plans ready for distribution April 15.

Ky., Adairsville—City receives bids about May 1 for filter plant and water works; cost \$40,000; C. N. Harrub, Engr., Nashville, Tenn. 2-19

Ky., Shelbyville—Stewart & Weir, Owensboro, have contract for drilling test well for Kentucky Utilities Co., Starks Bldg., Louisville.

La., Springhill—City, W. H. Malock, Mayor, plans water works system; E. T. Archer & Co., Engrs., New England Bldg., Kansas City, Mo.

Md., Baltimore—Caroline Foundry Co., 723 S. Caroline St., has contract for castings at Prettyboy Dam; Potts Mfg. Co., Mechanicsville, Pa., has contract for miscellaneous steel, etc.; contract for stone and cement to be awarded soon; Harry T. Campbell Sons Co., Parkton, has contract for 150,000 tons stone for Prettyboy Dam; J. A. LaPorte Corp., 108 State St., Albany, New York, Gen. Contr. 3-19

Md., Cascade—Office of U. S. Property Officer for Maryland, Cascade, receives bids April 21 for extension of water and sewer system and for construction of 13 kitchen and mess buildings at State Military Reservation. See Want Section—Bids Asked. 4-2

Md., Oxford—Town voted to extend water system to Jack's Point section; install 250 gal. pump.

Mo., Caruthersville—City purchased Cook strainer and Cook deep well turbine pump from Carloss Well Supply Co., 116 S. Front St., Memphis, Tenn.

Md., Curtis Bay, Baltimore—Bd. of Awards, Baltimore, receives bids April 15 for construction of Curtis Bay tank masonry enclosure. See Want Section—Bids Asked.

Md., Frederick—City plans voting on \$200,000 bonds for construction of Lingamore Creek pumping station and pipe line; Elmer St. C. Maxwell, Engr. 3-19

Mo., Jefferson City—Capital City Water Co., L. W. Helmrich, Mgr., installing water softening system in filtration plant on W. Main St.

Mo., St. Louis—Bd. of Public Service receives bids April 28 for covering 2 storage reservoirs at Compton Hill Reservoir of water works.

Tex., Amarillo—D. L. McDonald, Amarillo Bldg., reported, has contract at \$125,000 for furnishing city with additional water supply, drill wells, supply city with 2,500,000 gal. daily.

Tex., Beeville—Central Power and Light Co., San Antonio, double capacity of water supply, by drilling new well and installing new pumping equipment; well will be 650 ft. deep equipped with deep well centrifugal pump capable of producing 500 gal. per minute; construct pumphouse over the well, conc. sandtrap, cascade airtor, automatic sprinkler system; enclose port with fence.

Tex., Henderson—Layne-Texas Co., Second Natl. Bank Bldg., Houston, reported, has contract for deep water well for city.

Tex., Kilgore—W. G. Davis Construction Co., N. Texas Bldg., Dallas, reported, has contract for constructing water and sewage system and sewage disposal plant. 3-12

Tex., Linden—Harper Construction Co., Dallas, reported, has contract for sewer and water works; cost \$65,000.

Tex., Port Arthur—City will probably expend \$30,000 for construction of pumping station in vicinity of Pear Ridge to drain that section; J. W. O'Neal, Mayor.

Tex., Spearman—City, R. C. Sampson, City Mgr., will begin work May 1 on replacing all water mains in city with larger mains and laying several additional miles new mains.

Tex., Wichita Falls—City, Walter Nalton, Mayor, plans voting on \$450,000 water bonds. 3-26

Va., Lynchburg—L. H. Hundley, 2226 Hill-ton Ave., Ashland, Ky., has contract at \$94,000 for extension to water works system; dam 430 ft. long and 78½ ft. high; camps completed; machinery on dam site and excavation started. 3-26

Woodworking Plants

La., New Iberia—Mancuso Co., Kenner, reported, plans erection of cooperage plant; main building 180x280 ft.; manufacture barrels, boxes, etc.

N. C., Willson—C. R. Swinson, Inc., capital \$25,000, chartered; C. R. Swinson, L. H. Willoughby.

Tex., Paris—Cummer-Graham Co., formed by merger of Cummer Mfg. Co. of Paris and Graham Mfg. Co. of Longview; capital \$1,000,000; will operate plants in Paris, Mineola, Beaumont, Longview and Conroe for manufacture of wooden packages; J. F. Butcher is president and J. C. DeShong, Sec.-Treas. of new company.

FIRE DAMAGE

Ala., Trussville—Post Office, etc.; loss \$15,000. Address The Postmaster.

Ark., Piggot—Dry kiln at Myers Stave & Mfg. Co.

Fla., Largo—Citrus Fruit Packers Assn. plant; loss \$55,000.

Fla., Sherman—Dry kiln, planer mill of St. Andrews Bay Lumber Co.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Md., Baltimore—Sons of Italy, Vincent Flaccimico, Chmn., Bldg. Comm., 2961 Frederick Ave., having bids revised for \$40,000 lodge bldg., 806-08 St. Paul St.; brick and conc., 4 stories and 1 story, 48x115 ft., rein. conc., hardwood, terrazzo and tile floors, conc. and brick foundation, steel deck built-up roof; limestone, marble, metal ceilings, metal doors, rolling doors, steel sash and trim, hollow tile, wire glass; Bernard Evander, Archt., 20 E. Lexington St.; Herman Doeleman, Engr., Balto. Trust Bldg.; address owner, care Archt. 3-26

Miss., Starkville—Ancient Free and Accepted Masons, W. W. Scales, Chmn., Bldg. Comm., erect temple and theatre bldg. to replace burned structure.

Bank and Office

Ark., Arkadelphia—Mrs. J. H. Bell considers erecting \$25,000 office bldg. to replace burned structure; 2 stories, brick and concrete.

Mo., Kansas City—Kansas City Public Service Co., Powell C. Groner, Pres., plans office building.

Tenn., Springfield—First National Bank remodel bldg.; elect. wiring and fixtures, bronze work; Thos. W. Gardner, Archt., 317 Cotton States Bldg., Nashville.

Va., Charlottesville—Citizens Bank & Trust Co. has low bid from Charlottesville Lumber Co. for bldg.; L. E. Burruss, Archt. 3-26

Churches

Ga., Atlanta—Lutheran Church of the Redeemer, Dr. Fred W. Anderson, Chmn. Bldg. Comm., First Natl. Bk. Bldg., raising funds for brick tile, stone and rein. conc. bldg.; A. Ten Eyck Brown, Archt.; A. Barili, Jr., Associate, both Forsyth Bldg.

Ga., Gainesville—First Baptist Church, Rev. R. Q. Leavell, Pastor, erect \$60,000 church; brick, 3 stories, 60x90 ft., conc. foundation, comp. shingle roof; N. Sargent Hamilton, Archt., 2 Spring Lake Drive, Atlanta; raising funds.

La., Oberlin—Catholic Church, Rev. John Kemps, Pastor, started work on church hall; 36x60 ft.

Md., Baltimore—St. Joseph Monastery, 3600 block Frederick Ave., received bids Apr. 8 at office Hugh Kavanaugh, Archt., 913 N. Calvert St., for \$500,000 church; stone, 1 and 3 stories, 132x226 ft.; separate bids on heating, plumbing and elect. work; following contractors estimating: Cogswell Construction Co., 406 Park Ave.; Fraine Bros., 19 W. Franklin St.; Henry Smith & Sons Co., 115 S. Hanover St.; M. A. Long Co., 10 W. Chase St.; E. Eyring & Sons Co., 809 S. Conkling St.; Roy & Sons, Springfield, Mass.; McCloskey & Co., Inc., 1620 W. Thompson St., Philadelphia, Pa. 6-19

Miss., Greenville—First Methodist Church, M. C. Smith, Chmn., Bldg. Comm., erect \$25,000 Sunday school annex, Washington Ave.

and N. Shelby St.; brick, 2 stories; John P. Almand, Archt.-Constr. Supvr., 324 W. 14th St., Little Rock, Ark.

Mo., Webster Groves, St. Louis—Emmanuel P. E. Church, F. C. Thompson, Chmn., Bldg. Comm., erect stone parish house, Lockwood and Bompert Ave.; 2 stories and basement, 66x70 ft.; Chas. L. Thurston, Archt., 111 W. Lockwood Ave., Webster Groves; bids in.

N. C., Hickory—Miller Lutheran Church soon start work on completion of \$65,000 bldg., Sandy Ridge Rd. near Highland St.; foundation and section of walls up; Q. E. Herman, Archt.

N. C., Mooresville—Triplett Methodist Church, Rev. Mr. Crawford, Pastor, erect \$10,000 building.

N. C., Winston-Salem—Ardmore Moravian Church, Rev. Edgar Holton, Pastor, erect bldg.; brick and sand on site; Northup & O'Brien, Archts., Reynolds Bldg., open bids in few days on first unit.

Tex., Galveston—Central Christian Church has permit for \$10,000 auditorium.

Va., Hopewell—St. Johns P. E. Church, City Point, erect parish house; bids to be revised.

Va., Sandston—Herbert L. Cain, Archt., Grace Bank and Trust Bldg., Richmond, drawing plans for church.

City and County

Ala., Wetumpka—Elmore County Bd. of Revenue, G. H. Howard, Judge, receives bids April 30 for court house; \$250,000, Greek type, fireproof, rein. conc., brick and tile, stone trim, 3 stories and basement, 100x123 ft., tile and terrazzo floors, built-up roof, steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham.

Ga., Augusta—City Council plans police headquarters building.

La., Abbeville—Mayor and Town Council receives bids until April 28 for \$30,000 city hall; fireproof, brick, stone trim, 2 stories, 40x95 ft.; auditorium seat 400 to 500; plans from P. U. Broussard, Mayor, and C. H. Leinbach, Archt., 804 Central Bank Bldg., Dallas, Tex.

La., Crowley—City Council receives bids until April 23 for \$60,000 city hall and auditorium; brick, rein. conc., east stone trim, 2 stories, rein. conc. foundation, steel and iron work, hardwood, terrazzo and tile floors, marble, metal doors, steel sash, brass and bronze work, sheet metal work; auditorium seat 700, stage; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans.

La., Baton Rouge—King H. Knox, Bk. of Baton Rouge Bldg., considers erecting \$60,000 residence, Lake Crest.

Md., Silver Spring—Montgomery County Bd. of Commrs. consider either selling present bldg. and erecting new structure of erecting second story to present structure.

Mo., St. Louis—Board of Public Service, City Hall, has sketches by W. P. Manske & Associates, 4064 Olive St., for \$2,000,000 museum, Memorial Plaza, for Greater St. Louis Museum of Natural History; 5 stories and basement, brick, conc. and stone; project to be financed by bond issue later.

Mo., St. Louis—Board of Police Commrs., Room 604, 1200 Clark Ave., receives bids until April 17 for 2-story and basement conc. and stone bldg. and attached garage, Kansas St. and Colorado Ave.; separate bids for plumbing, heating, wiring, oil burner equipment and jail equipment; plans from Klipstein & Rathmann, Archts., 316 N. Eighth St.; Bedford limestone, 2 stories, 134x112 ft.; \$150,000; Taxis & Becker, Conslt. Engrs., Chemical Bldg.

N. C., Raleigh—City voted \$250,000 auditorium bonds; plans previously submitted by H. P. S. Keller, 129 Hillcrest St., and A. J. Maxwell, Jr., 908 Cowper Drive; Frank Page, Chmn., Auditorium Bldg. Commission.

Tenn., Morristown—City, Jas. E. Burke, Mayor, votes April 29 on \$40,000 city hall bonds.

Tenn., Wartburg—Morgan County let contract to Mitchell & Wyatt, Spring City, for brick jail.

Tex., Austin—City, Adam R. Johnson, City Mgr., considers erecting library latter part of 1931; \$150,000 bonds available; architect not selected.

Tex., Jasper—Jasper County receives bids May 4 at office Judge A. S. McKee to remodel and erect 2-wing addition to court house; \$35,000; 2 and 3 stories; DeFee & White, Archts., M. & M. Bldg., Houston.

Tex., Wellington—Collingsworth County Bd. of Commrs. selected J. C. Berry, Amarillo, as architect for \$175,000 court house; bonds voted.

Dwellings

D. C., Washington—Jos. M. Wise, 1246 Wisconsin Ave., N. W., has permit for brick and tile residence, 5400 32nd St., N. W.; 2½ stories, \$10,000.

D. C., Washington—M. W. Hoffman, 2310 S St., S. E., has permit for 2 brick dwellings, 2719-21 Pennsylvania Ave., S. E.; 2 stories; total \$14,000.

D. C., Washington—R. C. and F. E. Firor, 809 Kennedy St., erect brick residence, Butternut St. near Ninth St., N. W.; 2 stories and basement, 25x42 ft., slate roof, hot water heat; bids in.

D. C., Washington—A. Cult Yates, 1620 Sixteenth St., receives bids April 14 for brick and stone residence, Massachusetts Ave.; 3 stories, 50x38 ft., tile roof, steel sash, vapor heat, oil burner; Upman & Adams, Archts., Woodward Bldg.; Ward Brown, Asso. Archt., 1211 Connecticut Ave.; following contractors estimating: R. W. Bolling, 1 DuPont Circle; T. T. Taylor, Commercial Natl. Bank Bldg.; C. A. Langley, 1509 Connecticut Ave.; W. E. Mooney, 2539 Pennsylvania Ave.; Martin Bros., 1341 Connecticut; James T. Kenyon, 827 Fourteenth St.

D. C., Washington—R. H. Worrall, 1821 Riggs Place, N. W., erect brick residence, Hill Crest; 2 stories, asphalt shingle roof, vapor vacuum heat; W. I. Diffenderfer, Archt., 1707 Bay St., S. E.

Fla., Miami Beach—Mrs. Mattie S. Bass, care J. L. Bass, 5327 N. Bay Rd., erect rein. conc., conc. block, brick and stucco residence, garage and servants' quarters, Alton Rd., north of 60th St.; tile floors, tile roof, 4 baths; John M. Bullen, Archt., 607 Exchange Bldg., Miami; plans ready in 3 or 4 weeks.

Fla., Winter Park—Alfred P. Webster, Moline, Ill., advises not ready to consider bldg. plans; lately noted to erect \$20,000 to \$25,000 residence.

Ga., Atlanta—J. R. Rhodes, 823 Virginia Ave., N. E., erect brick veneer residence, Lullwater Rd., Druid Hills, after plans by Jess Wilhoit, Archt., Mtg. Guar. Bldg.; 2 stories and basement conc. foundation, wood joist, hardwood and tile floors, slate roof, steam heat; drawing plans.

Ga., Savannah—Walter R. Lavender, 1120 E. Gwinnett St., erect residence, W. Victory Drive.

Ky., Louisville—Dr. Florence Meder, 1822 East Parkway, erect \$15,000 brick residence, 519 Alta Vista Rd.

La., New Orleans—D. E. McDonald, Pass Christian, has low bid at \$14,700 from Hyman Rabinovitz, 740 Uoydras St., New Orleans, for alterations, additions, etc., for conversion of dwelling into duplex; A. S. Montz, Archt., 740 Poydras St., New Orleans.

Md., Baltimore—Bertram S. Cutler, care C. A. & C. M. Diffenderfer, 211 E. Lexington St., purchased farm and stables, Long Green Valley; remodel stables and residence.

Md., Baltimore—John Clark, 2712 Huntingdon Ave., erect frame and shingle residence, Melvale Heights; 2 stories, 25x26 ft.; Edw. A. Cullings, Contr., 692 Gladstone Ave.

Md., Bay Ridge, Annapolis—A. D. Loffler, Benning, plans to erect cottage, Bay Ridge, Md.

Md., Bay Ridge, Annapolis—Mrs. Edith B. Newman, 410 E St., S. E., plans cottage, Bay Ridge, Chesapeake Bay.

Md., Rockville—Curtis L. Ward erect brick and stone trim residence, Van Buren St.; 2½ stories, tile bath, hardwood floors, steel joists, comp. and tin roof, hot water heat; Howard W. Cutler, Archt., 1800 E St., Washington, D. C.; F. H. Karn, low bidder, Rockville.

Mo., Cape Girardeau—R. Elam Hempstead, 617 North St., considers erecting common brick residence, Spring and Themis Sts.; 1 story and basement, 24x26 ft., oak floors, asphalt slate roof.

Mo., St. Albans—Warner S. McCall, care Jamieson & Spearl, Archts., 1116 Arcade Bldg., St. Louis, erect brick and frame residence; 1 story and basement, 35x48 ft. and 36x34 ft.; bids in.

Mo., St. Louis—Walter P. Manske & Associates, Archts., 4164 Olive St., completing plans for 2 dwellings, Lindercrest; 1 story and basement, 48x28 ft., slate roof, tile bath, hardwood floors, copper sheet metal work.

N. C., Hickory—Donald Menzies erect residence, 12th Ave.

S. C., Greenville—C. Grantville Wyche, Dean Bldg., have plans ready in several days for Colonial residence; brick, limestone trim, 2 stories and basement, 10 rooms, 5 tile baths,

tile roof, hardwood floors, orna. iron, steam heat; Silas D. Trowbridge, Archt., 807 Forsyth Bldg., Atlanta, Ga.; following are estimating: Fiske-Carter Construction Co., Masonic Temple; Morris-McKoy Construction Co., Finlay Bldg.; Potter & Shackelford, Inc., Allen Bldg.; Carolina Construction Co., Walker Bldg.; Thomas Nilson, Wallace Bldg.; E. J. Gibson & Son, 58 Rutherford St., all Greenville; L. L. Merchant Construction Co., 290 Biltmore Ave., Asheville, N. C.

Tenn., Memphis—O. H. Miller, 1732 Autumn Ave., erect \$25,000 residence, Poplar Pike; brick veneer, tile and wood shingle roof, tile baths, hardwood floors; Estes W. Mann, Archt., Cotton Exch. Bldg.; preliminary plans.

Tenn., Nashville—E. C. Scruggs, Jr., Belmont Blvd., erect \$10,000 brick veneer residence, 2614 Acklen Ave.; 1 story, tile bath, oak and pine floors.

Tex., Houston—Geo. Dow, 1212 Miramar St., has permit for \$14,000 residence, 2211 Brentwood St.; brick veneer, 9 rooms.

Va., Norfolk—C. M. Baylor, 700 Shirley Ave., has low bid at \$11,183 from Q. N. Elliott for residence, Lochaven; Lee & Sherman, Archts., McKevitt Bldg.

Va., Richmond—Dr. John L. Fairly, 3212 Chamberlayne Ave., has low bid from B. W. Showalter for residence; Courtney S. Welton, Archt., Grace Amer. Bk. Bldg.

Va., Virginia Beach—Virginia Beach Home Building Corp. has low bid at \$24,366 from Bush & Bond, Norfolk, for 5 dwellings; Philip B. Moser, Archt., Law Bldg., Norfolk.

Government and State

Ala., Maxwell Field, Montgomery—Additional prospective estimators on hospital and detachment barracks, fire station and guard house and post exchange, Maxwell Field, bids April 23 by Constructing Quartermaster: Kistlers Plumbing & Sheet Metal Works, Alexander City, Ala.; Mason & Dulton, Second and M Sts., S. W., Washington, D. C.; A. K. Adams & Co., 542 Plum St., N. W., Atlanta, Ga.; Hodgson-Jones Construction Co., N. Perry St.; Algernon Blair, First Natl. Bk. Bldg.; T. M. Gorrie, 600 Pineleaf St., all Montgomery; Johns-Manville, Inc., Locust and 17th Sts., St. Louis, Mo.; Walter M. Vernon, 316 Kennedy Bldg., Fort Smith, Ark.

Ala., Maxwell Field, Montgomery—Constructing Quartermaster, Maxwell Field, Capt. M. A. McFadden, receives bids until May 1 for 3 double sets non-commissioned officers' quarters; plans from above.

Arkansas—Arkansas National Guard, Adjt.-Gen. E. L. Compere, Little Rock, erect armories at Little Rock, Pine Bluff, Hot Springs National Park, Russellville, Dardanelle, Walnut Ridge, Batesville, El Dorado, Hope, Prescott, Nashville and Ashdown after plans by H. Ray Burks, Wallace Bldg., Little Rock, and Durward F. Kyle, National Bldg., Pine Bluff; \$400,000.

Ark.-Tex., Texarkana—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., selected Witt, Selbert & Halsey, Texarkana Natl. Bk. Bldg., Texarkana, as architects for \$750,000 Federal building.

D. C., Washington—National Museum, Room 32, Tenth and B Sts., N. W., has low bid at \$17,820 from Frank L. Wagner, Inc., 10 L St., S. E., for galleries in north and northwest sections of bldg.; John Nagel, Engr., 1031 Navy Bldg.

Fla., St. Augustine—U. S. Property and Disbursing Officer receives bids in triplicate until April 16 for 8 kitchens and mess bldgs. and 78 tent floors, repairs to 4 lavatory bldgs. and repairs to 20 mess bldgs., Camp J. Clifford R. Foster; information on application.

Md., Hagerstown—State Bd. of Welfare, Robt. D. Case, Sec., Union Trust Bldg., Baltimore, drawing sketches for temporary frame dormitories, mess hall, kitchen and hospital for constr. activities at site of proposed penitentiary near Hagerstown; Buckler & Fenhagen, 323 N. Charles St., and Wm. H. Emory, Balto. Trust Bldg., architects, both Baltimore; J. B. Ferguson & Co., 39 W. Washington St., Hagerstown, and Whitman, Requardt & Smith, Balto. Trust Bldg., Baltimore, engineers.

Miss., Greenville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$17,819 from Samford Bros., 301 Washington Ave., Montgomery, Ala., for remodeling and enlarging post office.

Miss., Vicksburg—Corps Area Quartermaster, Fourth Corps Area, Fort McPherson, Ga., receives bids until April 30 for combination public toilet, stable and vehicle storage bldg. (service bldg.), U. S. National Cemetery; plans from above.

Mo., Jefferson City—Department of Penal Institutions opens bids April 9 for mechanical work (lubricating system, thermometer gauge, tilt traps and trap supports, blow-off tank, magnesia covering, boiler breeching, boiler settings, including all fire brick and tile required for boiler and stokers, steel walkways, trench cover plates and ash pit gratings); elect. work (power and light secondary equipment, power cables, conduit supports); drilling deep well; plans from above or from Wm. B. Ittner, Inc., Archts.-Engrs., 3615 Olive St., St. Louis.

Tenn., Chattanooga—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., selected R. H. Hunt Co., James Bldg., Chattanooga, as architect and Shreve, Lamb & Harmon, 7 E. 44th St., New York, as asso. architects for Federal bldg., Georgia Ave. 12-25

Tenn., Johnson City—National Home for Disabled Volunteer Soldiers, Everett Greer, Gov., probably start work in few weeks on \$650,000 addition; additional barrack and hospital wings; 350 domiciliary and 100 hospital beds. 7-17

Tenn., Old Hickory—Du Pont Rayon Co. advises post office will be built and handled by Government; company has no details or specifications; \$85,000. 4-2

Tex., Lubbock—Additional prospective estimators on \$350,000 post office, bids April 10 by Treasury Dept., Jas. A. Wetmore, Acting Supvg. Archt., Washington, D. C.; General—George Griffiths Construction Co., Arcade Bldg., St. Louis, Mo.; Buckeye Construction Co., Norwood, O.; O'B. Montgomery, Construction Bldg., Dallas, Tex.; Mead & Mount Construction Co., Denver, Colo.; Skinker & Garrett, 1719 I St., N. W., Washington; Elevators—Montgomery Elevator Co., Moline, Ill.; Moffatt Machinery Manufacturing Co., W. Third St., Charlotte, N. C.; Shepard Elevator Co., 2413 Colerain Ave., Cincinnati, O. 4-2

Tex., Brownsville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans to start work within 2 months on \$450,000 Federal bldg.; may call for bids about April 15; brick and rein. conc., 4 stories and basement. 10-16

Tex., Dallas—Hensley Field, Lt. Harry Weddington, Exec. Officer, soon start work on \$10,000 two-story administration bldg.; brick veneer, 2 stories.

Tex., San Antonio—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids April 22 for site, about 82,500 sq. ft., for \$1,400,000 post office.

Va., Fortress Monroe—Constructing Quartermaster, Fort Monroe, Capt. Geo. H. Schumacher, has low bid from L. R. Brophy, Hopewell, Va., for 3 double sets non-commissioned officers' quarters; brick and tile. 3-19

Va., Langley Field, Hampton—Constructing Quartermaster, Fort Monroe, Va., Capt. Geo. H. Schumacher, opens bids May 5 for hospital; brick and conc., 2 and 3 stories, slate or tile roof, steam heat; plans and specifications from above; Upman & Adams, Archts., Woodward Bldg., Washington, D. C. 2-12

W. Va., Charleston—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans \$1,500,000 Federal building.

Va., Langley Field, Hampton—Constructing Quartermaster, Fort Monroe, Va., Capt. Geo. H. Schumacher, receives bids April 17 (extended date) for 2 Air Corps barracks for 163 men and 1 for 330 men, Langley Field; rein. conc., brick, hollow tile, Indiana limestone, architectural terra cotta, terrazzo, tile and linoleum floors, metal lath, tile roofs, misc. iron and steel, kalamain doors, interior marble, steel windows, metal partitions; following prospective estimators: Batson-Cook Co., Inc., West Point, Ga.; Fiske-Carter Construction Co., Spartanburg, S. C.; Townsend Lumber Co., N. Towers St., Anderson, S. C.; J. A. Jones Construction Co., Commercial Bank Bldg.; Goode Construction Co., 11 E. Fifth St.; Southeastern Construction Co., 210 W. Second St., all Charlotte, N. C.; W. P. Rose Co., Wayne Natl. Bank Bldg., Goldsboro, N. C.; Davis Bros., Inc., 1716 Summit Ave.; W. P. Thurston Co., Inc., 301 S. Fourth St.; Doyle & Russell, Inc., Central Natl. Bank Bldg.; Wise Granite & Construction Co., American Natl. Bank Bldg., all Richmond, Va.; Worsham Bros., Empire Bldg., Knoxville, Tenn.; MacDonald Spencer Engineering Co., Inc., Graybar Bldg., New York; Harwood Construction Co., Law Bldg., Newport News, Va.; J. F. Barbour & Sons, Colonial-American Natl. Bank Bldg., Roanoke, Va.; M. H. Sobel, First Natl. Bk. Bldg., Detroit, Mich.; Ralph Solitt & Sons Construction Co., 228 N. LaSalle St., Chicago, Ill.; Ring Construction Co., Minneapolis, Minn.; Murch Bros. Construction Co., Rwy. Exch. Bldg., St. Louis, Mo.; Central Contracting Co., Investment Bldg., Pittsburgh, Pa.; Morley Bros. Constr. Co., 643 Bellevue Ave., Kansas City, Mo. 3-12

Va., Langley Field, Hampton—Constructing Quartermaster, Fort Monroe, opens bids April 30 for 2 Air Corps warehouses, Langley Field; information on application.

Va., Langley Field, Hampton—Constructing Quartermaster, Fort Monroe, Va., receives bids April 9 (extended date) for 20 double non-commissioned officers' quarters, Langley Field; bidders reported March 26. 3-26

Va., Martinsville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans to remodel post office.

Va., Norfolk—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$10,400 from H. M. Lucas, 115 Bruce St., Norfolk, for changes to post office, Main St.

Hospitals, Sanitariums, Etc.

Ala., Tuscaloosa—Prospective estimators on \$1,100,000 U. S. Veterans Hospital, bids April 21 by U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.; Grahn Construction Co., Red Rock Bldg.; Southern Ferro Concrete Co., Atlanta Trust Bldg., both Atlanta, Ga.; Murphey Pound, Columbus, Ga.; Algernon Blair, First Natl. Bank Bldg.; Samford Bros., Inc., 301 Washington Ave., both Montgomery, Ala.; R. P. Farnsworth & Co., Inc., Maritime Bldg., New Orleans, La.; W. P. Rose Co., Wayne Natl. Bank Bldg., Goldsboro, N. C.; Albinson & Co., Bartow, Fla.; Smallman-McQueen Construction Co., 1109 Fifth Ave., S.; Foster & Creighton Co., Protective Life Bldg.; C. G. Kershaw Contracting Co., Woodward Bldg., all Birmingham, Ala.; Murch Bros. Construction Co., Ry. Exch. Bldg., St. Louis, Mo.; Immel Construction Co., Fond du Lac, Wis.; James I. Barnes, Springfield, O.; York Engineering & Construction Co., York, Pa.; Ward & Ward, 56 Capital City Bank Bldg., Charleston, W. Va.; S. A. Lacy, Anniston, Ala.; J. M. Allen & Co., 43 Chamberlain Bldg., Chattanooga, Tenn.; Angle-Blackford Co., Inc., Amer. Exch. Natl. Bank Bldg., Greensboro, N. C.; Virginia Engineering Co., Inc., First National Bank Bldg., Newport News, Va.; Adams Construction Co., Woodward Bldg.; Loudoun-Rust Co., Dist. Natl. Bank Bldg., both Washington; W. P. Thurston Co., Inc., 301 S. Fourth St., Richmond, Va.; Edward S. Moore & Son, Kokomo, Ind.; Smith-Pew Construction Co., 435 Irwin St., N. E., Atlanta; Harrison-Wright Co., 4 W. Third St., Charlotte, N. C.; Chas. B. Johnson & Sons, 306 S. Wabash Ave., Chicago, Ill.; all on General Constr.; Robinson Bros. Plumbing Co., (p. and h.), 214 W. Barr St., Pine Bluff, Ark.; B. Grunwald, Ind. (p. and h.), 1110 Farnam St., Omaha, Neb.; Sodemann Heating & Power Co. (p. and h.), 2300 Morgan St., St. Louis, Mo.; Davis Construction Co. (h. and v.), 18 W. Kinzie St., Chicago; Southwestern Engineering Co. (p. and h.), 219 N. W. Fourth St., Oklahoma City, Okla.; Frank P. Boyd (p. and h.), 1019 Lafayette Ave., Columbus, Ind.; Bryce Plumbing & Heating Co. (p. and h.), Florence, S. C.; J. L. Powers (p. and h.), 227 E. Main St., Bennettsville, S. C.; Katz & Lewis Plumbing Co. (n.), 2205 W. Roosevelt Rd., Chicago; Poe Piping & Heating Co. (h.), 108 S. Main St., Greenville, S. C. 3-19

D. C., Washington—Navy Dept. selected Allied Architects of Washington, Inc., as architects for \$3,200,000 Naval Hospital and Medical Center, E St. and Constitution Ave. bet. 23rd and 25th Sts.; Wm. T. Partridge, Consultant and Architectural Advisor; accommodate 600; constr. under supervision of Rear Admiral A. L. Parsons, Ch. of Bureau of Yards and Docks. 3-5

D. C., Washington—Following prospective estimators on \$240,000 tuberculosis bldg., St. Elizabeths Hospital, bids April 30 by Department of Interior, Jos. M. Dixon, First Asst. Sec.; Lee Paschall, Amer. Natl. Bk. Bldg.; W. P. Thurston Co., Inc., P. O. Box 2089, both Richmond, Va.; Ralph S. Herzog, 10 S. 18th St., Philadelphia, Pa.; North-Eastern Construction Co., 6 W. Madison St., Baltimore, Md.; Standard Engineering Co., 2129 I St., N. W., Washington. 4-2

Fla., Orlando—Florida Sanitarium, Dr. L. L. Andrews, Supt., erect \$150,000 hospital; fireproof, Mediterranean type, 3 stories, 40 beds, 2 operating rooms; Howard M. Reynolds, Archt., 423 S. Orange St.

Ky., Lexington—United States Veterans Bureau, Arlington Bldg., Washington, D. C., plans recreational bldg., additional double staff quarters and single set quarters for Medical Officer in Charge, U. S. Veterans Hospital; total \$115,000.

Md., Towson, Baltimore—Sheppard & Enoch Pratt Hospital, Alfred W. Straham, Sec., 212 Chamber of Commerce Bldg., receiving bids, no definite date set, at office Wyatt & Nolting, Archts., Keyser Bldg., for alterations to women's bldg. in connection with installation of elevator; M. A. Long Co., 10 W. Chase St.; Thos. Hicks & Son, Inc., 106 W. Madison St.,

estimating on general constr.; Otis Elevator Co., 120 S. Paca St.; General Elevator Co., Inc., Bush and Ridgely Sts.; Warsaw Elevator Co., 111 Mercer St., estimating on elevator.

Miss., Gulfport—United States Veterans Bureau, Arlington Bldg., Washington, D. C., expend \$60,000 to \$70,000 for improvements to bldgs.; work probably start after June 1.

Okla., Norman—Central State Hospital erect \$50,000 soldiers' ward, work probably start about May 1; plans completed; brick and tile, stone trim, 2 stories, green tile roof, locker rooms, showers; also erect \$300 doctor's residence.

Tenn., Knoxville—East Tennessee Hospital Assn., Dr. S. M. Clark, Pres., 101½ W. Vine St., erect colored hospital, rear of Knoxville General Hospital, after plans by Clem H. Meyer, Archt., Deaderick Annex; \$110,000 to \$118,000; conc. frame, brick exterior, 3 stories, 45x144 ft., terrazzo and linoleum floors, conc. foundation, asbestos shingle or clay tile roof, cast stone, dumb waiters, elect. refrigerators, elevator, inclinator, limestone, marble, metal ceilings, steel sash and trim, steel hospital type windows, hollow tile, ventilators, wire glass, brass and bronze work; furnishings, equipment, etc., \$20,000 to \$25,000; city appropriated \$25,000 toward constr.; total of \$75,000 from Julius Rosenwald Foundation and other sources. 4-2-31 and 2-27-30

Tex., Waco—United States Veterans Bureau, Arlington Bldg., Washington, D. C., rejected bids for elevator for \$1,500,000 U. S. Veterans Hospital; Henry B. Ryan Co., Gen. Contr., 500 N. Dearborn St., Chicago, Ill. 3-26

Hotels and Apartments

Ark., Hot Springs National Park—Geo. R. Bartling, Inc., Archt., Paul Brown Bldg., St. Louis, Mo., receives bids April 11 for \$855,000, 8-story, with 7-story tower and basement, 108x60 ft., terrazzo stone, brick and rein. conc. hotel and garage; separate bids on heating, plumbing and wiring; 200 rooms and 150-car garage, 2 passenger and one freight elevator, terrazzo floors, steam heat. 12-4

D. C., Washington—Israel Diamond, 1737 Webster St., N. W., has permit for \$11,500, 2-story, brick flats, 608-12 Newton Place, N. W.

Ga., Columbus—Almond J. Westbrook convert 2-story residence, 1227 Third Ave., into 4 apartments; electric refrigeration.

La., DeRidder—James LeBlanc remodel Bessie Lee Hotel; also plans 2-story, brick addition in near future; Asmus, Clark & McCook, Archts., First Natl. Bank Bldg., Lake Charles, La., and Nashville Trust Bldg., Nashville, Tenn.

N. C., Wilmington—Meares Harriss, 224 Princess St., promoting erection of resort hotel near Silver Lake on Wrightsville Beach Road; 18-hole golf course.

Tex., Belton—W. L. Waller & Co., San Antonio, considering erecting \$100,000, 5-story and roof garden hotel.

Tex., Eagle Pass—Sam Schwarz having plans prepared by Atlee B. & Robt. M. Ayres, Smith-Young Tower, San Antonio, for Yolande Hotel addition and remodeling; 16 rooms and baths and remodeling to include private dining room on ground floor.

Tex., Longview—Gregg Hotel Co., R. G. Trippett, Pres., Slattery Bldg., Shreveport, La., having preliminary plans prepared by Seymour Van Os, City Bank Bldg., Shreveport, for \$375,000, 100-room hotel adjoining Gregg Hotel; 3 top floors for offices. 4-2

Miscellaneous

Fla., Miami Beach—Albert Bouche, Two 14th St., having plans prepared by George Bruce, Meyer-Kiser Bldg., Miami, for remodeling and enlarging dining room and show room together with various changes and extensions on second floor of Villa Venice Supper Club.

La., New Orleans—Jacob Schoen & Son, 519 Elysian Fields Ave., ready for bids for improvements to funeral establishment; E. F. Spori, Archt., Vincent Bldg.

Mo., St. Louis—Chas. H. Schroeder Bldg. & Construction Co., 4246 Natural Bridge, submitted low bid for one-story and basement, 65x63 ft., brick mortuary, Kingshighway and Lexington Ave.; Julius E. Tarling, Archt., 3806 N. Grand Blvd.

N. C., Raleigh—Tar Heel Country Club rebuild clubhouse noted damaged by fire at loss \$20,000.

Okla., Tulsa—Tulsa State Fair Bd., John T. Kramer, Sec., has plans by Endacott & Goff, Wright Bldg., for buildings at fair grounds; remodel grandstand into mercantile and display building; 600 ft. long; as a grandstand it will still be available, seating 10,000 people; \$500,000 bonds recently voted. 2-5

Tenn., Howell—Marcus Hipsh, Fayetteville, plans rebuilding structure noted burned containing post office, grocery store and garage.

Tex., Austin—State Federation of Women's Clubs, Mrs. J. F. Welder, Chmn., Victoria, tentatively selected site in Austin for clubhouse.

Tex., Orange—Lutcher Stark Boys and Girls, Inc., H. J. Lutcher Stark, purchased 4½-acre site on Old Spanish Trail and develop into 12-cabin tourist camp; playground, restaurant, bandstand, tennis courts, pavilion and swimming pool.

Tex., Port Arthur—Joe Grammier, 601 Fifth St., having plans prepared by C. L. Wignall, Barnes Bldg., for \$15,000 improvements to residence, Procter St. and De Queen Blvd., for funeral home. 3-19

Railway Stations, Sheds, Etc.

Va., Hopewell—Petersburg, Hopewell & City Point Electric Ry. Co. erect \$15,000, 2-story, brick, passenger station.

Schools

Ark., Beebe—White County School Bd. erect building to replace school burned at Stony Point.

Ark., Jonesboro—Agricultural and Mechanical College, Dr. V. C. Kays, Pres., selected following architects to work jointly in preparing plans for \$200,000, 3-story, fireproof administration building containing science laboratories, library and chapel; Petter & McAninch, Inc., Pyramid Bldg., and H. Ray Burks, Wallace Bldg., Little Rock, and Estes W. Mann, Cotton Exchange Bldg., Memphis, Tenn. 3-12

Ark., Little Rock—Thompson, Sanders & Ginocchio, Archts., Hall Bldg., completed plans for \$125,000 administration building, 20th and Washington Sts., for Philander Smith Negro College; another building will be erected later.

Ark., St. Joe—Snowball Special School Dist., care Miss Una Bratten, Marshall County Supt. of Schools, plans one-story, brick veneer junior high school; plans by State Dept. of Education, C. M. Hirst, Statehouse, Little Rock.

Ark., Texarkana—Texarkana Special School Dist., Will Steel, Pres., Bd. of Directors, receives bids April 15 for \$25,000, 2-story, 30x76 ft., brick and conc. addition to College Hill School; Witt, Seibert & Halsey, Archts., Texarkana Natl. Bank Bldg.

D. C., Washington—District Commrs., Roland M. Brennan, Ch. Clk., Engr. Div., have low bid at \$131,650 from North-Eastern Construction Co., 6 W. Madison St., Baltimore, for additions to Powell Jr. High School, including third-story of 8 rooms, together with gymnasium and improvements; A. L. Harris, Municipal Archt., Dist. Bldg. 3-26

D. C., Washington—District Commrs., R. L. Brennan, Ch. Engr., Dept., Dist. Bldg., erect auto repair shop at Columbia Jr. High School; contents 99,334 cu. ft.; bids in.

Ga., Atlanta—Bd. of Education purchased site, Sophia Place and Alavarda Terrace, for elementary school to serve Cascade-Beecher section.

Ga., Atlanta—Georgia School of Technology, Dr. M. L. Brittain, Chmn. Bldg. Comm., receives bids April 23 for \$90,000, 3-story and basement, rein. conc., brick and tile dormitory; stone trim, tile and terrazzo floors, slate roof, steam heat; plans by Bush Brown & Galley, care Architectural Dept.

Ga., Dalton—Bd. of Education, W. C. McGhee, Sec., selected Daniell & Beutell, Ga. Savings Bank Bldg., Atlanta, to prepare plans for \$30,000, one-story and basement, 12-room and auditorium, hollow tile and brick school; stone trim, comp. roof, steam heat. 4-2

Ga., Tifton—Bd. of Education plans rebuilding Jr. High School recently destroyed by fire; Daniell & Beutell, Archts., Ga. Savings Bank Bldg., Atlanta; W. H. Spooner estimating. 3-19

Ky., Mortons Gap—School Bd. having plans prepared by C. W. Kimberlin, Owensboro, for school building.

La., Baton Rouge—East Baton Rouge Parish School Bd. receives bids until about May 15 for addition to Istrouma elementary school, consisting of one-story, 60x100 ft., gymnasium, and for alterations and one-story, 30x90 ft. science building addition to Istrouma high school; \$75,000, both brick, comp. roofs, wood floors; Lewis A. Gross, Archt., Raymond Bldg. 3-19

La., Baton Rouge—Bd. of Supervisors, Louisiana State University and Agricultural College, Gov. Huey P. Long, Pres., State Capitol Bldg., receives bids April 27 for group of dormitories at Louisiana State University; \$500,000, 3 stories and basement, 432x280 ft., rein. conc. frame, brick, stucco trim, Spanish tile roof, 2 elevators, steam heat, refrigeration system; gymnasium and parlors, laundry and kitchenette in each wing; accommodate 450 to 500 students; separate bids as follows: (1) General; (2) mechanical equipment; (3) electrical; (4) miscellaneous; plans at office Weiss, Dreyfous & Seiferth, Inc., Maison Blanche Bldg., New Orleans, and Wogan & Bernard, Old Raymond Bldg., Baton Rouge, Asso. Archts., after April 13. 3-12

La., Greenburg—St. Helena Parish School Bd., J. M. Breeden, Supt., receives bids May 6 for schools at Pine Grove and Greensburg.

Miss., Houlka—Houlka Consolidated School Dist. Trustees having plans prepared by Frank P. Gates Co., Jackson, for \$30,000, one story, brick school; accommodate 400 pupils; prob. ask for bids early in May.

Mo., Clayton, St. Louis—Bd. of Education, John J. Bracken, 7500 Maryland Ave., ready for bids for cafeteria and addition to manual training dept. of Clayton High School; \$56,000; Wm. B. Ittner, Inc., Archt., Continental Life Bldg., St. Louis. 12-25

Mo., Eldon—Bd. of Education, Henry Roy, Sec., erect \$75,000 brick high school; bonds voted.

Mo., St. Louis—Washington University, Chas. Nagel, Pres., Board of Directors, ready for bids about May 1 for \$300,000, 3-story and basement, 208x60 ft., limestone Architectural School, Skinner and Forsythe Bldg.; Jamieson & Spear, Archts., Arcade Bldg. 11-27

Mo., Vanduser—Consolidated School Dist. No. 36 having plans prepared by Reither & Lindsay, H-H Bldg., Cape Girardeau, for \$19,000, one-story brick school; plans bond election.

S. C., Columbia—Benedict College Bd. of Trustees plans improvements; J. J. Starks, Pres.

Tenn., Chattanooga—Hamilton County School Bd., A. L. Rankin, Supt., erect \$15,000 Junior high school at Red Bank and \$50,000 Tyner-Silverdale school. 3-26

Tenn., Columbia—Columbia Military Academy, O. L. Dortch, plans \$12,000, 3-story, brick dormitory.

Tex., Beeville—Beeville Ind. School Dist. voted \$125,000 bonds for grade school, Mexican school, negro school, gymnasium and repairs to senior high school and grammar schools; brick, tile and rein. conc.; Malcolm Simons, Builders Exch. Bldg., San Antonio, and Beeville, and W. C. Stephenson, Beeville, Asso. Archts. 3-12

Tex., Dallas—Bd. of Education, N. R. Crozier, Supt., has low bid at \$19,927 from W. Lee Morris, 2439 Swiss St., for second unit of Clinton P. Russell elementary school; M. C. Kleuser, Archt., Construction Bldg.

Tex., Gainesville—Bd. of Education has low bid at \$35,777 from Lee Doughty, Dallas, for 2-story, 135x57 ft. ward school; asphalt and tile roof; Wyatt C. Hedrick, Inc., Archt., First Natl. Bank Bldg., Fort Worth. 3-19

Tex., Grapevine—Grapevine Ind. School School Dist. votes soon on \$50,000 high school bonds.

Va., Halifax—Halifax County School Bd. receives bids April 8 for school at Volens; plans by Raymond V. Long, Archt., for State Bd. of Education, Richmond. 9-11

Va., Montross—State Bd. of Education, Richmond, has low bid from Barne & Balderson, Tappahannock, for one story, 8-classroom, auditorium and library, brick school; plans by Raymond V. Long, Archt., for State Bd. of Education. 3-5

Va., Oceana—Princess Anne County School Bd., Robt. J. Johnson, Supt., selected Rudolph, Cook & Van Leeuwen, Arcade Bldg., Norfolk, as architects for \$24,500, brick, fireproof school to replace recently burned structure; 8 classrooms, auditorium to seat 300 people, lunchroom with capacity of 100 people. 4-2

Va., Williamsburg—Theta Delta Chi Fraternity, College of William and Mary College, has low bid from John T. Nuckols, 1102 E. Main St., Richmond, for building.

Stores

Ark., Junction City—D. L. McDonald, 110 Main St., erect 20x65 ft., one-story drug store to replace structure recently noted burned; linoleum and tile floors, metal ceilings, metal roof; bids in. See Want Section—Building Material and Equipment.

D. C., Washington—J. W. Beller, Transportation Bldg., and Blaine Mallan have low bid from Jas. L. Parson, 1427 Eye St., N. W., for one-story, 5-story building, 1825 Columbia Road; Frederick B. Pyle, Archt., Evans Bldg. 3-19

D. C., Washington—Mrs. Lillian Douglas, care W. S. Plager, Archt., 1930 Kearney St., N. E., erect one-story, limestone and brick store, 5023 Connecticut Ave., N. W.; slag roof; Great Atlantic & Pacific Tea Co., Lessee; architect will take bids.

D. C., Washington—Mrs. B. B. Horn, care W. S. Plager, Archt., 1930 Kearney St., N. E., erect 2-story, brick shop building, 829 Fourteenth St.; slag roof, steam heat.

La., Lake Charles—R. S. McCook, Archt., First Natl. Bank Bldg., soon ready for bids for alterations to Frank Bldg., damaged by fire, and 2-story, 30x75 ft., brick garage; \$25,000.

Mo., St. Louis—Julius E. Tarling, 2806 N. Grand Blvd., has low bid from Chris Spoeneman, 4142 Farlin Ave., for 2-story and basement, 60x86 ft., brick store and apartment, Lillian and Durant Sts.

Tex., Beaumont—W. W. Kyle, owner of Kyle Theater, receives bids April 14 at office Babin & Neff, Archts., Perlstein Bldg., for \$150,000, one- and two-story, brick, stone trim, semi-fireproof shop and office building, Orleans St. between Liberty St. and Broadway. 3-26

Tex., Raymondville—Three Links Building Co., A. R. Coulter, erect 40x70 ft., 2-story building; \$20,000 including site; mercantile concern on first floor; second for lodge hall.

Tex., San Antonio—Riverside Improvement Co. remodel L. C. Berrey Drug Store, 101 E. Houston St.

Va., Newport News—M. Williams, 3614 Washington Ave., received bids April 8 for store and apartment building; H. W. and J. S. Simpson, Archts., Bd. of Trade Bldg. 3-26

Theatres

Fla., Daytona Beach—John McMahon, Jr., and Albert Diem, 219 Oakridge Blvd., erect \$25,000 theater in Seabreeze Circle; Spanish villa type.

Fla., Daytona Beach—East Coast Theaters, Inc., erect theater, Second Ave. and Pine St.; \$10,000, fireproof, stoneware; seating capacity 620.

S. C., Columbia—Paramount Public Theater, Paramount Bldg., New York, J. A. Koerpel, Div. Dir., Chattanooga, Tenn., plans \$600,000 moving picture and vaudeville theater on Main St.; Warren Irvin, Dist. Mgr., Charlotte, N. C.; undecided whether the theater company will construct the building or will sign long-term lease for privately constructed building.

Tenn., Memphis—Joe Hanover, Sterick Bldg., erect one-story, 30x50 ft., brick theater addition, 619 Chelsea St.; comp. roof; Memphis Theatre Co., Lessee.

Warehouses

D. C., Washington—Government, Col. U. S. Grant, III, Public Bldgs. and Grounds, Room 1056 New Navy Bldg., have plans ready about June 1 for \$1,750,000, 8-story, 498x214 ft., brick and conc. Federal supply warehouse, between C and D and 7th and 8th Sts.; Lockwood Greene Engineers, Inc., Conslt. Engrs., 100 E. 42nd St., New York. 3-5

BUILDING CONTRACTS AWARDED

Association and Fraternal

S. C., Ridgeland—Ancient Free and Accepted Masons erect temple; contract let.

Va., Richmond—Following sub-contracts let on \$350,000 Home for Needy Confederate Women for United Daughters of Confederacy: Limestone, Indiana Limestone Co., Bedford, Ind.; limestone labor, Seymour-Ruff,

2133 Maryland Ave., Baltimore, Md.; brick work, John C. Roger, Charlottesville, Va.; plumbing, R. E. Kritzer, 3009 Grove Ave.; heating, John H. Rose & Co., Inc., 16 N. 13th St.; wiring, Morris Hunter, 113 N. Eighth St.; ventilating, Rueben Burton Co., Inc., 1800 N. Dineen St.; comp. floors, W. Martin Northern, 109 E. Grace St.; metal door bucks, Earnest Bros.; roofing and sheet metal

work, N. W. Martin & Bro., 805 E. Franklin St.; struct. and misc. steel and iron, Cruickshanks Iron Works, Dineen St. and S. A. L. R. R., all Richmond; tile and marble, Atlantic Marble & Tile Co., 208 S. Poplar St., Charlotte, N. C.; rein. steel, Southern G-F Co., 263 Decatur St., S. E.; plastering, Jacobson Plastering Corp., Candler Bldg., both Atlanta, Ga.; millwork, M. T. Blassingham & Co., Inc., 27th St. and Hampton Ave., Norfolk, Va.; Lee, Smith & Vandervoort, Archts., Sixth and Franklin Sts.; Allen J. Saville, Inc., Contr., Electric Bldg. 2-12

Bank and Office

Ala., Birmingham—Kamram Grotto, W. W. Alvey, member, Bldg. Comm., excavating for \$325,000 office bldg., 20th and Tenth Sts., Five Points; red brick, limestone trim, 8 stories and basement, 157x75 ft. for first floor, 100x53 ft. above, marble lobby, 2 elevators; shops on first floor, parking space in basement; hot and cold water, compressed air and gas in each office; rein. conc. constr. conc. spread foundation, built-up tar and gravel roof; terrazzo, tile and comp. floors, mail chutes, hollow and gypsum tile, brass and aluminum work; Chas. H. McCauley, Archt., Jackson Bldg.; Mackie Building Co., Inc., Contr., 615 S. 27th St.

Fla., Jacksonville—Texas State Bank, J. R. Dunn, Pres., soon start work on bldg., E. Commerce and S. Ragsdale Sts.; stone, 50 ft. front, 2 stories; 12 office suites on second floor.

N. C., Asheville—First National Bank & Trust Co., 15 Church St., Junius G. Adams, Pres., let contract to D. A. Roberts, Church St., for new safe deposit vault and additional boxes, storage vault and to add rooms in basement, etc. 3-5

Tex., San Angelo—West Texas Utilities Co. add second story to bldg.; brick and conc., 4 offices and assembly room; A. W. Stein, Constr. Foreman.

Churches

Ga., Atlanta—Woodward Avenue Baptist Church, W. B. Campbell, Chmn., Bldg. Comm., 273 Logan St., S. E., erect \$50,000 bldg.; brick, comp. roof, 3 stories and basement, 87x125 ft.; auditorium seat 700.

La., Morgan City—Sacred Heart Church, Rev. A. Souby, Pastor, erect brick and rein. conc. assembly bldg.; 2 stories, 50x150 ft., rein. conc. foundation, steel and iron work, steel trusses, sheet metal work; seat 700; Martin Shepard, Archt., Balter Bldg., New Orleans; owner receiving sub-bids.

Mo., St. Louis—St. John the Baptist R. C. Church, Rev. John Peters, Pastor, 4204 Delor St., let contract to Benedict G. Grammann, 4729 Gravois Ave., to remodel and erect addition to bldg.; brick, new front, 5-story tower, 18x90 ft.; \$30,000; Adolph F. & Arthur Stauder, Archts., 3608 Gravois. 3-12

City and County

S. C., Rock Hill—City let contract at \$12,400 to Gary Martin, Clinton, for alterations and additions to bldg. for library; brick; A. D. Gilchrist, Archt., Rock Hill; later want bids on library equipment. 3-26

Tex., Beaumont—City let contract at \$59,875 to Herman Weber, Perlstein Bldg., to rebuild fire stations, Gladys, Sabine Pass and McFaddin Sts.; residence type, fireproof, hollow tile and brick, rein. conc. frame, 2 stories, 30x45 ft., cement, comp. and tile floors, tile roofs; Babin & Neff, Archts., Palatium Bldg. 3-12

Dwellings

Ala., Birmingham—W. E. Herron, 1810 S. 29th Ave., has contract for brick veneer dwelling, Mountain Brook; 2 stories and basement, 45x30 ft., asbestos roof, steam heat, 2 baths; Sam C. Molloy, Archt., 1012 Protective Life Bldg.

Ala., Birmingham—R. E. Hill, 1825 N. 14th Ave., erect brick veneer residence, Redmont Park; 2 stories and basement, 40x30 ft., comp. roof, 2 tile baths, steam heat; Miller & Martin, Archts., 911 Title Guar. Bldg.; Harrison-Richardson, Contrs., Brown-Marx Bldg.

D. C., Washington—Chas. D. Sager, 924 14th St., N. W., has permit for 6 dwellings, 4218-20 Reno Rd., N. W., and 3600-12 Veazey St., N. W.; brick and frame, 2 stories; total \$45,000; owner builds.

D. C., Washington—L. F. Breuninger & Sons, Inc., Investment Bldg., have permit for 2 brick dwellings, 1357 Juniper St., N. W., and 7604 Morningside Drive, N. W.; 2½ stories; total \$18,000 plans and constr. by owner.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., have permit for stone, brick and frame dwelling, 4316 Forest Lane, N. W.; 3 stories, \$15,500; owners build.

D. C., Washington—Cooley Bros., Tower Bldg., erect 11 brick building, 1917-37 38th St.; 2 stories, tin roof, hot water heat; total \$60,000; owners build.

D. C., Washington—Frank L. Fanning, 1351 Spring Rd., N. W., erect \$10,000 residence, 2946 Northampton St.; 2 stories, brick and frame, shingle roof, hot water heat; owner builds.

D. C., Washington—Saidee H. Huddleston, 306 The Woodley, erect \$19,000 residence, 3444 32nd St., N. W.; brick and frame, 2 stories, asphalt shingle roof, hot water heat; C. N. Norton, Archt.; H. P. Huddleston, Contr., 306 The Woodley.

D. C., Washington—Yates Boswell, 507 B St., N. E., erect 3 frame dwellings, 2200-04 Everts St., N. E.; 2 stories, comp. shingle roofs, hot water heat; total \$13,500; John A. Melby, Archt.; owner builds.

D. C., Washington—Louise S. Moffit, 1902 Second St., N. E., erect 4 brick dwellings, 3608-14 Ingomar Place, N. W. 2 stories, tin roof; total \$26,000; owner builds.

D. C., Washington—C. W. Williams, Woodside, Md., erect 5 brick dwellings, 5231-39 Kansas Ave.; 2 stories, tin roofs; total \$27,000; Geo. T. Santmyers, Archt., 1416 I St., N. W.; owner builds.

D. C., Washington—Israel Diamond, 1738 Webster St., N. W., erect 3 brick dwellings, 608-12 Newton Place, N. W.; 2 stories, slag roofs, hot water heat; total \$11,500; owner builds.

D. C., Washington—Harris Shapiro, 1477 Girard St., N. W., erect 3 brick and frame dwellings, 5812-20 Sixth St., N. W.; 2 stories, slate and tin roof, hot water heat; Geo. T. Santmyers, Archts., 1416 I St., N. W.; owner builds.

D. C., Washington—Jacobson Bros., 1616 K St., erect \$10,000 dwelling, 6327 Western Ave.; 2 stories, brick and stucco, slate roof; Geo. S. White, Archt.; owner builds; also erect \$9500 frame dwelling, 5412 31st St.; 2 stories, slate roof.

D. C., Washington—D. M. Marthinson, 1900 Massachusetts Ave., has contract for brick and hollow tile dwellings, Glenbrook, Rd., Edgemoor; 2½ stories, conc. work, sheet metal, slate roof, hot water heat, elect. refrigeration.

D. C., Washington—Willow L. Moore, 1024 Vermont Ave., erect \$10,000 brick residence, 5456 Nebraska Ave.; 1 story, slate and tin roof, hot water heat; F. M. Johnson, Contr., 3010 Wisconsin Ave.

D. C., Washington—C. S. Lashan, 3101 Georgia Ave., erect brick residence, 756 9th St., N. E.; 2 stories, tin roof, hot water heat; owner builds.

D. C., Washington—Thos. L. Lechliden, 1116 Monroe St., erect brick, conc. block and frame residence, 30th Place; 2 stories, asphalt shingle roof, hot water heat; owner builds.

Fla., Miami Beach—Carl Green, 423 Avenue Navarre, having plans drawn plans by A. Dehaven Zink, Archt., 821 Seybold Bldg., Miami, for 2-story dwelling and garage; probably start work during April.

Ga., Atlanta—Emmett Landrum, 326 Inman St., erect 1-story and basement residence, 1630 Beecher St., S. W.; 6 rooms and bath, comp. roof, hot air heat; owner builds.

Ga., Atlanta—E. A. Workman, Route No. 1, Connally, erect brick veneer residence; 1 story, hardwood floors, hot air heat; day labor.

Ga., Atlanta—Chas. Black, Jr., Contr., Atlanta Trust Bldg., erect 2 dwellings, Valley Rd.; brick and hollow tile, 2 stories and basement, conc. foundation, tile baths, slate or tile roof, steam heat, misc. and orna. iron and steel; Frazier & Bodin, Archts., Candler Bldg.

La., New Orleans—John Stabile, 337 S. Rampart St., erect 2-story residence, Pierce and D'Hemecourt Sts.; Saputo & Governall, Contrs., 823 Perdido St.

La., New Orleans—Edw. J. Joubert erect single residence, Fairmont Drive and Clermont St.; O. F. Harang, Contr., 6008 Catina St.

La., New Orleans—Mrs. John Badinger erect double residence, 2155 Foy St.; F. R. Gatti, Contr., 820 Taft Place.

Md., Baltimore—Louis A. Bast, 3404 Alto Rd., erect residence, Northwood; brick and stone, 8 rooms, 2 baths, 2-car garage; John A. Ahlers, Archt., 529 N. Charles St.; Roland Park-Montebello Building Corp., Contr., care J. S. Downing, 3609 Greenmount Ave.

Md., Baltimore—Geo. B. Hess, 8 E. Baltimore St., let contract to L. L. Chambers, Inc., 36th St. and Roland Ave., for residence, Seven Mile Lane near Park Heights Ave.; 2½ stories; O. Eugene Adams, Archt., 329 N. Charles St. 3-19

Md., Baltimore—Jas. G. Cremen, 3200 W. Rogers Ave., erect frame residence, Pimlico; 2½ stories, 25x28 ft.; owner builds.

Md., Baltimore—Talbot & Boschert, American Bldg., erect 4 brick dwellings and garages, 6406-12 Sefton Ave.; 1 story, 28x43 ft., hot water heat; total \$10,000; M. J. Strickroth, Archt.; owners build.

Md., Baltimore—Woodland Realty Co., 1414 Fidelity Bldg., plans 78 dwellings and garages, 2300 block Pelham Ave., 2300 and 2400 blocks Chesterfield Ave. and 3600 block Crossland Ave.; brick, 2 stories, 20x32 ft. and 10x18 ft.; total \$186,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Rittenhouse Realty Co., 503 Chapel Gate Ave., erect 4 frame dwellings, 2610-16 Rittenhouse Ave.; 1½ stories, 22x26 ft. and 10x16 ft.; owner builds.

Md., Baltimore—Benj. Kleiman, 2431 Eutaw Place, erect 10 brick dwellings, 2300 block Ocala Ave.; 2 stories; total about \$30,000; owner builds.

Md., Baltimore—John L. Tregellas, Inc., 10 E. Fayette St., erect 3 semi-bungalows, 6000 block Sycamore Ave.; total \$10,000.

Md., Baltimore—John Welsh, Bldr., 11 E. Fayette St., has permits for 338 English type dwellings, 2700 and 2800 blocks Chesley Ave., 3100 and 3300 blocks Moravia Ave., 3300 block Grenton Ave., 4600 block Harcourt Rd., 3200 and 3400 blocks Hall St., 4600 block Crosswood Ave., 4600 block Crossland Ave., and 3500 block N. Ellamont St.; also has permits for 84 dwellings, 4500 and 4600 blocks Walther Ave., 4600 block Arabia Ave. and 3100 block Moravia Ave.; former to cost about \$790,000, later about \$140,000; Geo. Wessel, 601 W. 40th St., architect for portion of dwellings.

Md., Bay Ridge, Annapolis—J. Bittenbender started work on 1-story frame residence; Francis M. Miller, Contr., Bay Ridge.

Md., Brooklyn, Baltimore—Geo. F. Anderson, 3906 Fifth St., Brooklyn, erect 4 brick dwellings, 609-15 Sixth St.; 2 stories; total \$11,000; plans and constr. by owner.

Md., Easton—Malcolm L. Cleary let contract to Russell Summers, Easton, for residence; frame, 1½ stories, 30x45 ft.; T. Worth Jamison, Archt., 12 E. Pleasant St., Baltimore.

Md., Pikesville—Chas. B. Cole excavating for frame residence; 1½ stories, 24x36 ft.; Wm. J. T. French, Contr., 3303 Hillsdale Ave., Baltimore.

Mo., St. Louis—L. Lucking, 3933 Kossuth St., erect brick residence, Pasadena Hills; 2 stories, 52x23 ft.; C. Spoeneman, Contr., 4142 Farlin St.

Mo., St. Louis—P. Geist, 5239 Nottingham Ave., erect 3 brick dwellings, 7307-15 Sharp Ave.; 1 story and basement, 24x36 ft., tile bath, hardwood floors, comp. shingle roof, hot air heat; total \$15,000; work by sub-contract.

Mo., St. Louis—Sours & Hasenbeck, 4554 Washington Ave., soon start work on brick dwelling, 4500 block Ruskin Ave.; 1 story and basement, 24x41 ft., tile bath, stone foundation, comp. shingle roof, hot water heat; Julius E. Tarling, Archt., 2806 N. Grand Blvd.; work by sub-contract.

Mo., St. Louis—J. A. Dwyer, 7138 Maryland St., erect \$10,000 brick residence, La Hacienda sub-division; 2 stories, 38x34 ft.; C. B. Joplin Realty Co., Contr., 6635 Delmar Ave.

Mo., St. Louis—Carl Pfeiffer, 4709 Penrose Ave., erect 2 brick dwellings, 4723-25 Penrose; 1 story and basement, 27x48 ft., tile bath, hardwood floors, comp. shingle roof, hot air heat; work by sub-contract.

Mo., St. Louis—P. A. Griswald and M. Paffner, care F. Burns, Contr., 7707 Vermont Ave., erect \$10,000 duplex, 3940-42 Missouri Ave.; brick, 1 story and basement, 30x50 ft., hardwood floors, comp. shingle roof, tile bath, hot air heat.

Mo., St. Louis—John C. Greulich, 3111 N. Grand Blvd., excavating for 2 brick dwellings, 8606-18 Oxford Lane; 1 story and basement, 27x41 ft., tile bath, hardwood floors, asphalt shingle roof, hot air heat; total \$12,000; work by sub-contract.

Mo., St. Louis—A. C. Hiemenz, care Jamieson & Spearl, Archts., 1116 Arcade Bldg., let contract to E. A. Brunson Construction Co., 1976 Ry. Exch. Bldg., for brick residence, Ladue Lane; 2 stories and basement, about 76x39 ft.

Mo., University City, St. Louis—W. Glicker, 728 Yale Ave., started work on 2 brick dwellings, 7348-56 Kingsbury Blvd.; 2 stories and basement, 38x32 ft., hardwood floors, tile bath, slate and tile roof, stone foundations, vapor heat; total \$20,000; Russell Conzelman, Archt., 12 Calumet Bldg.; work by sub-contract.

Mo., University City, St. Louis—Jos. A. Einig, 5946 Hamilton Ave., started work on \$9500 brick dwelling, 7482 Amherst Ave.; 1½ stories and basement, 27x29 ft., comp. shingle roof, tile bath, hardwood floors, hot water heat; work by sub-contract.

Mo., University City, St. Louis—Roy P. Page, 1344 Waldron Ave., erect \$10,000 brick residence, 7051 Cornell St.; 2 stories, 39x30 ft., stone foundation, tile roof, hot water heat; plans and constr. by owner.

Mo., University City, St. Louis—Alco Investment Co., 808 Chestnut St., erect 2 brick dwellings, 7052-56 Tulane St.; 2 stories, 27x50 ft., asphalt shingle roofs, hot air heat; total \$15,000; A. L. Strubig, Archt.; Swan Supply Co., Contr., 808 Chestnut.

N. C., Hickory—Dr. H. H. Menzies erect residence, Ellis Park; red Colonial handmade brick; H. C. Cline, Contr.

Tex., Los Fresnos—Dr. W. A. Hobbs, care Wm. D. Van Sichen, Archt., Brownsville, erect \$10,000 frame and stucco residence near Los Fresnos; 2 stories, about 18x79 ft., tile roof, 7 rooms, 3 baths, tile and oak floors, automatic elect. water system; A. W. Neck & Son, Contrs., Brownsville.

Tex., San Angelo—Roy T. Foster let contract at \$18,787 to C. E. Bareford & Son, 1702 W. Beauregard St., for fireproof residence; 2 stories, 47x51 ft., oak floors, rein. conc. foundation, Spanish clay tile roof; John G. Becker, Archt.-Engr. See Want Section—Building Material and Equipment. 3-19

Tex., San Roman—Dr. J. G. Williams, care Wm. D. Van Sichen, Archt., Brownsville, erect handmade brick residence; oak plank floors, Mission tile roof; 9 rooms; garage; Morrow & Leach, San Benito, contract at \$13,387.

Va., Richmond—E. J. Keegan, Real Estate Exch. Bldg., let contract to Jos. P. Black, 105 Libby St., for residence, Rugby Rd. 3-26

Va., Virginia Beach—Robt. Turnbull erect \$15,000 residence, 100th St.; E. Bradford Tazewell, Inc., Contr., 708 W. 21st St., Norfolk.

Va., Warrenton—Paul Bowen, care W. H. I. Fleming, Archt., 1707 I St., Washington, D. C., erect 2½-story residence; W. J. Hanbank, Contr., Warrenton.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., let contract at \$12,750 to Leon A. Harris, 2917 La Salle St., Chicago, Ill., to clear site of \$10,000,000 Department of Justice Bldg.; Zantinger, Borie & Medary, Archts., Otis Bldg.; Isaac Hathaway Francis, Heating-Plumbing-Wiring Engr., 1520 Locust St., both Philadelphia, Pa.; Gravel & Duncan Lewis, Struct. Tower Bldg., Washington. 4-2

La., Barksdale Field, Shreveport—Constructing Quartermaster, Capt. Geo. E. Lamb, let contract at \$72,622 to W. Murray Werner, Commercial Bank Bldg., Shreveport, for quartermaster maintenance shop, warehouse and garage. 3-12

La., Baton Rouge—D. S. Melvin, New Orleans, La., has waterproofing contract for \$5,000,000 Louisiana State Capitol; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg., New Orleans; George A. Fuller Co., Contr., Munsey Bldg., Washington, D. C., and Fuller Bldg., New York. 4-2

Md., Fort George G. Meade—Constructing Quartermaster let contract at \$39,819 to John M. Kisner & Bro. Lumber Co., 203 Norfolk Ave., Fairmont, W. Va., for 6 non-commissioned officers' quarters. 4-2

Md., Fort George G. Meade—Colonial Brick Corp., Winchester, Va., has contract for 750,000 brick for officers' quarters for which John M. Kisner & Brother Lumber Co., 208 Norfolk Ave., Fairmont, W. Va., has general contract. 3-26

Md., Fort Hoyle—Constructing Quartermaster let contract at \$14,460 to Robt. G. Hopkins, 904 E. 41st St., Baltimore, for 3 non-commissioned officers' quarters. 4-2

N. C., Fort Bragg—Constructing Quartermaster let contract at \$150,163 to York Construction Co., Odd Fellows Bldg., Raleigh. N. C. and Fort Bragg, for 6 field officers' 6 company officers' and 4 non-commissioned officers' quarters; brick and tile walls, stucco, 2 stories, oak floors, conc. foundation, tile roofs. 3-12

Tenn., Murfreesboro—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$16,300 to Noyes, Roach & Co., Morris Bldg., Joliet, Ill., for remodeling and enlarging post office. 3-28

Va., Langley Field, Hampton—Constructing Quartermaster, Fort Monroe, Va., let contract at \$353,620 to M. H. Sobel & Co., First Natl. Bank Bldg., Detroit, Mich., for 16 double sets company officers' quarters, Langley Field. 4-2

Va., Norfolk—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$10,400 to H. M. Lucas, 115 Bruce St., Portsmouth, Va., for changes in screen, etc., old post office building.

W. Va., Clarksburg—Anderson Manufacturing Co., Inc., 937 E. Broadway, Louisville, Ky., has millwork contract for \$425,000 post office and court house; Lockwood Co., 16 Reade St., New York, contract for hardware; John Largura & Co., Contr., 2672 Adams St., Gary, Ind. 3-26

Hospitals, Sanitariums, Etc.

Miss., Jackson—Peters Heating Co., 121 S. President St., Jackson, has heating contract at \$44,000 for 12 bldgs. for \$5,000,000 Mississippi Insane Hospital; B. E. Walker Construction Co., Standard Life Bldg., Jackson, waterworks and sewerage system at \$54,294; lately incorrectly reported; N. W. Overstreet, Archt., Standard Life Bldg., Jackson; Vinson B. Smith, Advisory Archt., Gulfport. 4-2

Tenn., Memphis—United States Veterans Bureau, Arlington Bldg., Washington, D. C., let contract at \$88,944 to Harrison-Wright Co., 4 W. Third St., Charlotte, N. C., for boiler house, U. S. Veterans Hospital. 3-12

Tenn., Nashville—City let contract to Foster & Creighton Co., Fourth & First Bank Bldg., for remodeling and new units, Nashville General Hospital; plumbing and heating, Gowans-Hailey Co., 167 Second Ave., South; sprinkler system, Radabaugh-Corbitt Co., 218 Tenth Ave., North; elect. work, Ramsey Electric Co., 430 Deadrick St., and Friedman Electric Co., 2804 West End Ave.; \$500,000, brick, steel and conc., cut stone trim, fireproof, 4 stories, 176x135 ft.; nurses' home addition Colonial type, 3 stories, 42x86 ft., 36 rooms, brick, cut stone trim; remodeling to include rein. conc. floor work covered with terrazzo marble and rearrangement of partitions; nurses' call system; 2 elect. elevators; Asmus & Clark, Archts., Nashville Trust Bldg. 3-26

Hotels and Apartments

D. C., Washington—Federal Construction Co., B. S. Robbins, 1001 Fifteenth St., N. W., having plans prepared by M. Mesrobian, 5115 41st St., N. W., for thirty-eight 2-story, brick apartment buildings on Peabody St., N. W.; slag roof, tile baths, linoleum and oak floors, electric refrigeration; owner builds.

D. C., Washington—C. H. Small & Co., 925 Fifteenth St., ready for sub-bids for ten apartment buildings of 4 suites each; 2 stories, brick and hollow tile, 17x34 ft.; Geo. T. Santmyers, Archt., same address; owner builds.

D. C., Washington—Lester A. Barr, 1870 Wyoming Ave., N. W., erect \$275,000, 11-story, brick, struc. steel and conc., hotel apartment, 1713-21 G St., N. W.; John L. Barr, Contr., 11 Primrose St., Chevy Chase, Md.; M. G. Lepley, Archt., 3726 Military Road, N. W.

D. C., Washington—E. M. Willis, Jr., Tower Bldg., taking sub-bids on 2-story, brick and hollow tile, 6-apartment building, 16th St., S. E.; hot water heat, linoleum floors, built-in kitchen equipment; Geo. T. Santmyers, Archt., 925 Fifteenth St.; owner builds.

Mo., St. Louis—C. T. Watson, Archt.-Bldr., 1542 S. Theresa St., has permit for 2-story, 28x48 ft. brick tenement, 5019 Winona St.; asphalt shingle roof, warm air heat.

Mo., St. Louis—E. Koenig, 3425 Nebraska Ave., excavating for \$11,000, 2-story, 34x50 ft., brick apartment, 3535-37 Dunnica Ave.; tar and gravel roof, hardwood floors, hot air heat; owner builds by sub-contract.

Mo., St. Louis—Seventeenth Street Realty Co., Frisco Bldg., remodel 6-story hotel, 1428-32 Locust St.; \$10,000; Chas. B. McCormack & Son, Bldrs., 318 N. Eighth St.

N. C., Charlotte—Home Real Estate and Guaranty Co., 219 N. Tryon St., has permit for \$31,000, brick veneer, 8-apartment, 1021-23 Ardsley Road; owner, Archt.-Bldr.

Tex., Dallas—B. A. Parrish, 117 N. Beckley St., contractor, interested in erection of \$400,000, 8-story, fireproof business building and hotel, Beckley and Jefferson Aves., Oak Cliff; ground floor for business houses and office space may be available on second and possibly third floors.

Miscellaneous

Mo., St. Louis—Herman Rindskopf, 5216 Delmar Ave., erect \$40,000, 2-story, 40x102½ ft., brick mortuary, 5212 Delmar Ave.; conc. roof, steam heat; Sol Abraham Construction

Co., Bldr.; Leo F. Abrams, Archt., both Chemical Bldg.

Va., Hopewell—Diocese of Richmond, Rt. Rev. Andrew J. Brennan, Bishop, 800 Cathedral Place, Richmond, let contract to C. H. Hughes, 116 N. 16th Ave., for erection of convent and improvements to St. James Catholic Church; \$24,000; Rev. Father James C. Gacquin, Pastor.

Schools

Ala., Auburn—Alabama Alpha Alumni Bd., Inc. (Sigma Phi Epsilon), 210 N. 21st St., Birmingham, let contract to Algernon Blair, First National Bank Bldg., Montgomery, for \$35,000, 2-story, basement and attic, 69x41 ft., brick veneer fraternity house; wood floors, comp. shingle roof; Bem Price, Archt., Comer Bldg., Birmingham. 3-26

Ga., Atlanta—Bd. of Education, R. R. Ritchie, expend \$108,454 in repairs to various schools; allocations as follows: Plumbing, \$28,761; painting, \$100; sheet metal, \$2433; electrical, \$22,525; roofing, \$17,433; carpentry, \$21,730 heating, \$9515; window shades, \$5937; work to start at once, day labor.

Ga., Baconton—Baconton Consolidated School Dist. votes within 60 days on \$25,000 bonds.

Ga., Toccoa Falls—Toccoa Falls Institute, R. A. Forrest, Pres., erecting, day labor, \$20,000, 3-story, 40x90 ft., stone dormitory; comp. roof, wood floors; foundation completed. 3-19

La., New Orleans—Bd. of Supervisors, Louisiana State University and Agricultural and Mechanical College, care Dr. Arthur A. Virrine, Dean, Louisiana State University Medical Center, Charity Hospital, let contract at \$529,189 to R. P. Farnsworth & Co., Inc., Maritime Bldg., for 10-story, 54x200 ft., rein. conc., brick, limestone trim Medical Center Bldg. on property of New Orleans Charity Hospital; mechanical, \$127,931, Sciambra & Masino, Inc., 636 N. Broad St.; electrical, \$59,500, Hart Enterprise Electrical Co., Inc., 826 Baronne St.; elevator, Otis Elevator Co., 852 Carondelet St.; Weiss, Dreyfous & Seiferth, Inc., Archts., Maison Blanche Bldg. 3-26

Md., Frostburg—Frostburg Normal School let contract to George F. Hazelwood, Howard St., Cumberland, for 2-story, brick school; Smith & May, Archts., Baltimore Trust Bldg., Baltimore.

Md., Baltimore—Bd. of Awards, City Hall, let contract at \$102,904 to Lacchi Construction Co., Munsey Bldg., for 10-classroom, brick addition to School No. 20, Eden and Federal Sts.; Frederick A. Fletcher, Archt., 13 Franklin St. 4-2

Md., Towson—Baltimore County School Commrs. let contract to Consolidated Engineering Co., 20 E. Franklin St., Baltimore, for 2-story, brick school in Dist. No. 6 on Eklo-to-Mayville Road; Smith & May, Archts., Baltimore Trust Bldg., Baltimore. 3-19

Mo., Joplin—Bd. of Education, Dr. J. J. Barnett, Pres., let contract at \$168,709 to Buchanan & North, Fort Smith, Ark., for \$265,698 North Jr. High School; plumbing and heating, \$54,928, M. B. Schulte Plumbing & Heating Co., 514 Joplin St., Joplin; electrical, \$10,361, Chandelier Shop, 110 W. Sixth St., Joplin; Thomas B. Williamson & Co., Archts., Topeka, Kans.; B. F. Cook, Conslt. Engr., 713 Linwood Blvd., Kansas City. 3-19

Tex., La Ward—La Ward Common School Dist. No. 2, Allen L. Birditt, Sec., La Ward All Sports Club, let contract at \$25,300 to C. W. Ennis, 409 Webster St., Houston, for one-story, 128x71 ft., brick, tile, struc. steel, east stone and rein. conc. elementary and high school; cement, comp., linoleum and wood floors; Harry D. Payne, Archt., Kirby Bldg., Houston. 3-26

Tex., San Antonio—Bd. of Education, Paul H. Scholz, Bus. Mgr., let following equipment contracts for \$1,000,000 Thomas Jefferson Sr. High School, Spanish Acres: Laboratory, \$10,510, E. H. Sheldon & Co., Santa Fe Bldg., Dallas, and \$6790, G. A. Stowers Furniture Co., 301 W. Houston St., San Antonio; steel lockers, \$12,491, Turner Roofing & Supply Co., 1308 E. Houston St., San Antonio; scenery and stage equipment, \$9856, Houston Scenic Studio, 7026 Sherman St., Houston; opera chairs, \$6581, Household Furniture Co., 232 W. Commerce St.; Adams & Adams, Archts., Western Natl. Bldg.; Phelps & De-wees, School Archts., Gunter Bldg.; Walsh, Burney & Key, Gen. Contrs., 928 N. Flores St. 3-19

Stores

D. C., Washington—Mason M. McCarey, 845 Upshur St., N. W., erect one-story, brick addition to store and apartment; hot water heat, tin roof, \$10,000; V. T. H. Bien, Contr., 46 Elm Ave., Takoma Park, Md.

D. C., Washington—Wm. and Mrs. Jennie Kaplan, care Julius Wenig, Archt., Edmonds Bldg., let contract to A. D. Brown, 4400 17th St., N. W., for remodeling and erecting addition to building, 1834 Seventh St.; brick, stone, waterproofing, plumbing, metal ceiling. 3-26

D. C., Washington—John Williams, 2437 Nichols Ave., S. E., erect \$11,000, 2-story, brick store and apartment, 2401 Nichols Ave., S. E.; tin roof, hot water heat; Reed Thomas Co., Contr., Peoples Life Bldg.

D. C., Washington—Kass Realty Co., 1116 Vermont Ave., erect one-story, 24x70 ft. brick store, 608 T St., N. E.; slag roof; M. Platsch, Archt., 641 Lamont St., N. E.; owner taking sub-bids.

D. C., Washington—Penn Realty Co., 133 Pennsylvania Ave., N. W., ready for sub-bids for 2-story, 100x110 ft., brick, struc. steel store and office building, N. W. cor. 5th and K Sts., N. W.; built-up roof, hot water heat, wood floors; Julius Wenig, Archt., Edmonds Bldg.; owner builds. 3-12

Ga., Atlanta—J. W. Jenkins, 536 North Ave., N. E., has contract at \$25,000 for erection of one-story brick veneer Chapel Bldg. and make alterations to brick building, 860 Peachtree St., N. E., for Ed. Bond & Condon Co., 125 Ivy St., N. E.; comp. or slate roof, steam heat; Chas. H. Hopson, Archt., Healey Bldg.

Md., Baltimore—Samuel Shuman, 6716 Harford Ave., ready for sub-bids for 2-story, brick store, Harford Road and Northern Parkway; owner, Archt.-Bldr. 3-12

Md., Baltimore—Frank M. Schofield, 331 N. Charles St., erect \$30,000, 3-story and basement, 27x120 ft., limestone front store and office building, 415 N. Charles St.; Charles H. Reuwer, Archt., 517 N. Charles St.; Consolidated Engineering Co., Bldr., 20 E. Franklin St.

Md., Baltimore—Roland Park Montebello Co., J. S. Downing, V.-P., 2609 Greenmount Ave., ready for sub-bids for two 2-story,

27x48 ft., brick buildings, 1210 Argonne Drive, for stores and dwellings; \$10,000; John Ahlers, Archt., 529 N. Charles St.; owner builds.

Md., Baltimore—Hanline Bros., 1300 S. Sharp St., erect 2-story, 22x47 ft., brick building for office and storeroom; Tase Norris Co., Bldr., 903 Cathedral St.

Md., Baltimore—P. Pappas, 609 Poplar Grove St., let contract to J. H. Hubbard, 715 Edgewood St., for one-story brick store and apartment, 670 Poplar Grove St.; J. C. Spedden, Archt., 215 Harlem Ave.

Md., Baltimore—John E. Miles, 545 W. Hamburg St., erect one-story, brick, 25x45 ft., brick residence and store building, 2448 Washington Blvd.; C. Palmer, Bldr., 1626 W. Fayette St.; W. Scott Staniford, Archt., 5311 Windsor Mill Road.

Mo., Kansas City—Kansas City Structural Steel Co., has contract for 431 tons struc. steel for 2-story addition to present 6-story building, 1217-23 Walnut St., and for 8-story annex for J. W. Jenkins Sons Music Co., 1015 Walnut St.; \$500,000; Chas. A. Smith, Archt., Finance Bldg. 2-12

N. C., Charlotte—Pound & Moore Co., 210 S. Tryon St., let contract to A. Lloyd Goode, Inc., 11 E. Fifth St., for \$30,000 improvements to building, 213 S. Tryon St.; M. E. Marsh, Archt., Builders Bldg. 3-5

N. C., Wilmington—Lawrence S. Saunders, 108 N. Front St., let contract to U. A. Underwood, Inc., Murchison Bldg., for \$10,000 improvements to 4-story store building.

Tex., Austin—Following sub-contracts awarded on 3-story and basement, 160x154 ft., tile, struc. steel, rein. conc., stone and granite addition to store under construction (footings and basement columns poured) for E. M. Scarbrough & Sons for which James T. Taylor, Aviation Bldg., Fort Worth, has general contract at \$245,487: Struc. steel, Houston Structural Steel Co., 3010 Washington St.; removable forms, Steelform Contracting Co., Bankers Mortgage Bldg.; integral waterproofing, A. C. Horn Co., 2120 Park St.,

all Houston; rein. and mesh, North Texas Iron & Steel Co., 1401 N. Adams St.; millwork, Ingram & Co., W. T. Waggoner Bldg.; metal doors, elevator doors, metal windows, Collinsville Manufacturing Co., 1003 E. Front St.; tile and terrazzo, Southland Tile and Mantel Co., 1728 N. Enderly Place, all Fort Worth; misc. and orna. iron, Ornamental Iron Co., Arlington; limestone, Texas Quarries, Inc., Scarbrough Bldg.; roofing and sheet metal, J. O. Buas & Sons, 407 Lavaca St.; lumber, Calcasieu Lumber Co., 311 W. Second St.; lumber and cement, Kuntz-Sternberg Lumber Co., 601 E. Fifth St.; painting, T. S. Hill, 406 E. 17th St.; brick and tile, Elgin-Butler Brick Co., 201 Congress St., all Austin; granite facing, American Black Granite Co., Ashland, Wisc.; stack lining, Southwest Insulating & Packing Co.; membrane waterproofing, Congleton Co., Inc.; iron treatment and dampproofing, W. L. Macatee & Sons, 2927 San Jacinto St., all Dallas; lathing and plastering, J. S. Lovell, 2934 Colcord Ave., Waco; Wyatt C. Hedrick, Inc., Archts., First Natl. Bank Bldg., Fort Worth. 3-5

Tex., Lubbock—J. J. Clements, Contr., soon start work on \$40,000 Conley Bldg., previously destroyed by fire; fireproof.

Tex., Palestine—M. A. Davey, O'Neill Hotel, let contract to Wm. Kraus & Sons for improvements to two brick stores.

Theatres

La., Abbeville—Frank deGraauw let contract to erect fireproof theater; steam heat; seat 1000 people. 11-27

Warehouses

Mo., St. Louis—A. E. Black let contract to James Black Masonry & Contracting Co., both Louderman Bldg., for \$25,000, one- and two-story, 102x142 ft., conc., brick and struc. steel warehouse and garage, 1024-26 N. 20th St.; Lamella roof, steel sash, low pressure boiler; Chas. Gray, Archt., Chemical Bldg. 3-26

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Acme Equipment Co. (Mchy. Dealer), 174 E. Ohio St., Millvale, Pa.—Wants prices and data on following:

- (1) Air Compressors—two 12x10 in., two 14x 12 ft., all Ingersoll Rand
- (2) Crusher—Williams or Pennsylvania, hammer mill type, 3 to 5 tons hourly
- (3) Dry Pan—9 ft., Mullers, 12x54 in., heavy duty
- (4) Engines (Gas)—one or two 1500 to 2000 h. p., belted or direct connected to 3-phase, 60-cycle, 2300-volt generators
- (5) Engines (Oil)—two; one 240 h. p., direct connected to 250-volt, d. c. generator, other 450 h. p.

Emig Service Stores, Inc., A. W. Emig, Pres., Seventh and N. Alamo Sts., San Antonio, Tex., wants following:

- (1) Brake Tools
- (2) Brake Tester
- (3) Gasoline Tanks
- (4) Grease Lifts
- (5) Grease Containers
- (6) Washing Equipment, etc.

Alfalfa Dryer—Henry Moore, Jr., State Natl. Bank Bldg., Texarkana, Ark.—Wants prices and data from manufacturers of dry kiln systems suitable for drying alfalfa.

Barrel Manufacturing Machinery—O. J. Bundy, Mt. Olive, N. C.—Wants prices and data on used barrel stave machine and stave sizer machine for making U. S. potato barrel; also on barrel expander.

Blower Fans.—Power Equipment Co., on good, used, 48-in. Venturi type blower P. O. Box 1326, Greensboro, N. C.—Wants price and data on good, used, 48-in. Venturi type blower fans; 3 phase, 220 volts, service complete with louver.

Crane (Steam Locomotive).—National Equipment Co., 400 W. First St., Bloomington, Ind.—Wants prices and data on 50 to

60-ton steam locomotive crane; must be self-propelling; good condition.

Engine (Diesel).—S. C. Lawson, Benson Springs, Fla.—Wants prices and data on four 75-h. p. Diesel engines for river boat service.

Crusher.—Cohutta Talc Co., Dalton, Ga.—Wants prices and data on crusher, suitable for crushing talc or soapstone to ¼-in. size, 3 to 5 tons hourly capacity, used, good condition.

Dairy Product Plant.—H. C. Jones, Chamber of Commerce, Kingstree, S. C., wants prices on entire equipment for cooling and storing 4000 to 12,000 lbs. whole milk daily; separating 2000 lb. and like equipment.

Fire Pumps.—Power Equipment Co., P. O. Box 1326, Greensboro, N. C.—Wants prices and data on used fire pumps, as per Underwriters' approval, 300 to 500 gal. per minute, for electric motor drive, either with or without motor, good condition.

Resaw.—Hackley Morrison (Mchy. Dealer), Mutual Bldg., P. O. Box 733, Richmond, Va.—Wants prices and data on left-hand, belt driven band resaw with 6 or 7-in. blade.

Walking Stick and Tobacco Pipe Manufacturing Equipment.—B. H. Strong, West Point, Miss.—Wants prices and data on clamps and other apparatus for making walking sticks, leaving bark on wood; also on complete equipment for making tobacco pipes from wood.

Miscellaneous

Cork (Sheet).—S. C. Lawson, Benson Springs, Fla.—Wants prices and data on about 10,000 sq. ft. 4-in. sheet cork for insulating purposes.

Hardware (Trunk).—J. M. Torrence, Box 344, Bessemer City, N. C.—Wants prices and data on locks, hinges and other hardware required in manufacture of trunks.

Stencils.—Irving Lichenstein, 3835 Park Heights Ave., Baltimore, Md.—Wants prices and data from firms in a position to manufacture stencils in metal or 150-point cardboard, 30 to 40 panels of various signs, 9¼x 20 in. over all, for use in painting advertising signs.

Metal Filing Instruments.—Continental Fruit Products Co., Frostproof, Fla.—Wants prices and data from firms in position to manufacture instruments for filing metal; wants to have special files made.

Pool Table Cushions (Rubber).—J. W. Sorrell, Box 458, Alexander City, Ala.—Wants prices and data on rubber cushions for miniature pool tables.

Universal Chemical Co., Inc., Louise, Miss.—Wants prices and data on following:

- (1) Combs
- (2) Containers
- (3) Duplicating Machine—for duplicating letters, drawings, etc.
- (4) Labeling Machines
- (5) Straightening Combs.

Building Material and Equipment

Mims Speake & Co., Archts., Luray, Va., want prices and information on:

Seats (Auditorium)—about 500, for school, used equipment preferred.

D. L. McDonald, 110 Main St., Junction City, Ark., wants prices on following for one-story drug store:

- Flooring—linoleum
- Metal Ceiling
- Roofing (Flat)—metal
- Ventilators.

Bids Asked

Asphalt.—See Road Building Materials.
Boilers.—Quartermaster, Ft. Hoyle, Md.—Bids Apr. 14 for steam boiler.

Boiler Tubes.—Post Quartermaster, Ft. Sam Houston, San Antonio, Tex.—Bids Apr. 16 for removing 70 boiler tubes and installing 70 new tubes.

Brake Units.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Apr. 13 for 12 booster brake units, delivery Philadelphia, Pa.

Cafeteria Equipment.—Comms., District of Columbia, Washington, D. C.—Bids Apr. 21 for cafeteria equipment.

Capes.—U. S. Indian Agt., Chilocco, Okla.—Bids Apr. 17 for 500 girls' capes.

Coal.—Bureau of Mines, Dept. of Commerce, Washington, D. C.—Bids May 1 for requirements for government fuel yards, Washington, for fiscal year.

Coal.—Commr. of Indian Affairs, Washington, D. C.—Bids Apr. 28 for coal for various deliveries during fiscal year 1932.

Coal.—Q. M. Supply Officer, Ft. Sam Houston, San Antonio, Tex.—Bids Apr. 22 for bitum. coal for various points.

Concrete Enclosure (Tank).—Bd. of Awards, Baltimore, Md.—Bids April 15 for construction of Curtis Bay tank enclosure for Bureau of Water Supply; information on application to E. G. Rost, Water Engr., Room 303, Municipal Office Bldg., Baltimore.

Concrete Mixing Outfit.—Supt., St. Elizabeth's Hospital, Washington, D. C.—Bids Apr. 13 for portable concrete mixing outfit.

Counter, Partitions, etc.—Office of Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Apr. 15 for counter and partitions, gate, door and grilles at naval operating base, Hampton Roads, Va.

Crane (Electric, Traveling).—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Apr. 21 for overhead traveling electric crane, Sch. 2845.

Crescoted Piling and Lumber.—See Road Building Materials.

Drainage Work.—Cameron County Improvement Dist. No. 15, A. Tamm, Dist. Engr., Harlingen, Tex.—Bids Apr. 27 for drainage improvements.

Drilling Machine.—See Miscellaneous Machinery and Tools.

Dredging.—U. S. Engr. Office, Custom House, Baltimore, Md.—Bids May 5 for dredging 99,056 cu. yd. material, place measurement, Broad Creek River, Del. 65,187 cu. yd., Corsica River, Md., and 16,663 cu. yd., Kent Island Narrows, Md.

Dredging.—U. S. Engr. Office, Savannah, Ga.—Bids May 4 for dredging, East River, Brunswick Harbor, Ga. See Construction News—Drainage, Dredging and Irrigation.

Elevators (Electric).—U. S. Veterans Bureau, Construction Div., Arlington Bldg., Washington, D. C.—Bids Apr. 28 for complete installation of electric elevators, U. S. Veterans Hospital, Waco, Tex.

Fans, etc.—Pur. Agt., Government Printing Office, Washington, D. C.—Bids Apr. 13 for fans and blowers.

Farm Implements.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Apr. 14 for seed sower, 2 harrows, with 25 extra teeth, delivery Quantico, Va.

Filter Unit.—Supvg. Archt., Treasury Dept., Washington, D. C.—Bids Apr. 15 for underground filter unit for new post office.

Fence (Wire).—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids Apr. 15 for erecting wire fence, Broening Highway, Camp Holabird.

Forgings (Alloy Steel).—See Miscellaneous Machinery and Tools.

Gas Burners.—Contracting Branch, Quartermaster, Ft. Sam Houston, San Antonio, Tex.—Bids Apr. 18 for 26 gas burners.

Hydrogen Gas.—Dept. of Agriculture, Division of Purchase, Sale and Traffic, Washington, D. C.—Bids Apr. 28 for 144,000 cu. ft. (estimated) of hydrogen gas, f. o. b. factory, as required during fiscal year 1932 within Florida, Alabama, Mississippi, Louisiana, Texas, New Mexico, Colorado, Kansas, Oklahoma, Missouri, Arkansas and San Juan, Porto Rico.

Irrigation Improvements.—Cameron County Water Improvement Dist. 14, S. K. Hallam, Sec., Merchants Natl. Bank Bldg., Brownsville, Tex.—Bids Apr. 21 for certain improvements to system. See Construction News—Drainage, Dredging and Irrigation.

Kitchen Equipment (Machines).—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Apr. 15 for combination food chopping and meat grinding machine, bread slicing machine and mixing machine.

Lathe (Tool-room).—See Miscellaneous Machinery and Tools.

Linoleum.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Apr. 15 for installing linoleum at marine barracks, Quantico, Va.

Meters.—Submarine Mine Dept., Ft. Monroe, Va.—Bids Apr. 13 for 3 ammeters and 3 voltmeters, etc.

Miscellaneous Supplies.—Commr. of Indian Affairs, 806 Spruce St., St. Louis, Mo.—Bids Apr. 21 for hardware and tools, babbitt metal, blacksmiths' blowers, hog and trace chain, handles, oilers, wire, hose, wire cloth, plumbers' supplies, fittings, valves, leather belting, bar iron, packing, manila rope, solder and cotton waste.

Miscellaneous Machinery and Tools.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Apr. 14 for: Electric, portable drills; alloy steel forgings, and motor driven tool-room lathe; bids April 21 for: Motor driven, metal working shapers; motor driven, radial drilling machine.

Motor Boats.—U. S. Engr. Office, Huntington, W. Va.—Bids Apr. 13 for motor boats for maintenance and improvement of existing river and harbor works, general improvements (dredging operation), and for operation and care of Kanawha and Ohio Rivers.

Number Posts (Markers).—U. S. Engr., Office, Huntington, W. Va.—Bids Apr. 14 for number posts (markers) for Locks 14 to 28, inclusive, Ohio River.

Oil Barge (Steel).—U. S. Engr. Office, P. O. Box 667, Vicksburg, Miss.—Bids Apr. 28 for furnishing all labor and material, constructing and delivering afloat at Vicksburg, Miss., 80x26 ft. steel oil barge.

Paint.—State Road Dept., Robt. W. Bentley, Chmn., Tallahassee, Fla.—Bids Apr. 20 for 4800 gal. outside white paint, in 5-gal. containers, over period of 6 months.

Pipe, etc.—Dept. of Commerce, Bureau of Standards, Washington, D. C.—Bids April 18 for following for National Hydraulic Laboratory: 2 sections of welded steel pipe 8 ft. in diam., lengths totaling about 28 ft., and including two 45 degree bends, also for 2 sections of pipe 3 ft. in diam., lengths totaling about 40 ft., and including three 45 degree bends; welded flanges are included; information on application Room 4, West Bldg., Bureau of Standards.

Pump.—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids Apr. 15 for vacuum pump, centrifugal driven.

Road Building Materials.—State Road Dept., Robt. W. Bentley, Chmn., Tallahassee, Fla.—Bids Apr. 20 for crescoted treated timber and crescoted treated piling, oil asphalt, slag for surface treatment, oil asphalt summer viscosity and cover material for surface treatment.

Road.—Dallas, Tex. See Construction News—Roads, Streets and Paving.

Road.—Dallas, Tex. See Construction News—Roads, Streets and Paving.

Road.—Jefferson Barracks, Mo. See Construction News—Roads, Streets and Paving.

Roads.—State of Maryland—Bids for 5 roads. See Construction News—Roads, Streets and Paving.

Saw, etc.—Pur. Agt., Government Printing Office, Washington, D. C.—Bids Apr. 13 for Universal arbor saw and single spindle borer.

Saw Bench.—Supt., St. Elizabeth's Hospital, Washington, D. C.—Bids Apr. 13 for Universal saw bench of motor-on-arbor type.

Scarlet Flannel.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Apr. 13 for 800 yd. scarlet flannel, delivery Philadelphia, Pa.

Sewer Construction.—Bd. of Awards, Baltimore, Md.—Bids April 15 for sewers, Storm Water Contract 163.

Shapers (Metal Working).—See Miscellaneous Machinery and Tools.

Shed Framing (Steel).—Bd. of Commrs. of Port of New Orleans, New Orleans Court Bldg., New Orleans, La.—Bids Apr. 15 for furnishing and erecting struc. steel framing for city delivery shed and office at Bienville St. wharf.

Slag.—See Road Building Materials.

Streets.—Marshall, Tex. See Construction News—Roads, Streets and Paving.

Streets.—Baltimore, Md. See Construction News—Roads, Streets and Paving.

Street.—Towson, Md. See Construction News—Roads, Streets and Paving.

Timber (White Oak).—U. S. Engr. Office, Huntington, W. Va.—Bids Apr. 13 for white oak timber, wicket timber, Locks 8 and 9, Kanawha River.

Trucks.—U. S. Coast Guard Headquarters, Washington, D. C.—Bids Apr. 15 for 4 trucks, 1½ ton capacity, for Long Island and vicinity.

Water and Sewer.—U. S. Property and Disbursing Office for Maryland, Cascade, Md.—Bids April 21 for extension of water and sewer system and for construction of 13 kitchen and mess buildings at State Military Reservation, Cascade; information on application.

Trade Literature

Leaning Wheel Grader.—The Caterpillar Tractor Co., Peoria, Ill., has issued a booklet illustrating and describing the "Caterpillar" Thirty leaning wheel grader. This is a smaller unit than the "Caterpillar" Sixty type and matches the power of the "Caterpillar" Thirty tractor. It is equipped with a 9-foot blade.

Du Pont Explosives.—E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., has issued a bulletin, "Brands of du Pont Explosives and Uses to Which They Are Adapted," the seventh edition of a chart issued for the purpose of aiding users of explosives to make proper selections. The chart has been revised to include new explosives added to the du Pont brands in the past year.

Pulverizing Equipment.—The Raymond Bros. Impact Pulverizer Co., Chicago, Ill., has issued a bulletin covering a resume of Raymond equipment built and installed in 1930, which reveals the wide scope of special equipment which this company makes and presents a picture of what it has accomplished during the past year. Products of the company include roller mills and automatic pulverizers with air separators, roller mills and pulverizers with screen separators, vacuum air separators, special exhaust fans, dust collectors, etc.

Policy and Ethics in Business.—This is the title of a 624-page volume just published by the McGraw-Hill Book Co., Inc., New York, which criticizes the interference of Law with Business and discusses from many angles the problem as to whether American business has developed "a sufficient sense of responsibility to set its own house in order." The author is Carl Taesch, Managing Editor, "Harvard Business Review," Associate Professor of Business Ethics, Graduate School of Business Administration, Harvard University.

Bank Credits and Acceptances.—This is a volume published by the Ronald Press Company, New York, as a revision of American Commercial Credits published in 1922. The altered title arises from the desire to include new chapters dealing with bank guarantees and other substitutes for bank credits, and outlining briefly methods of setting up acceptance credits in conformity with the Federal Reserve Act and the regulations of the Federal Reserve Board. The book is by Wilbert Ward, assistant vice president of the National City Bank of New York and member of the New York Bar.

Chucks and Chuck Jaws

The American Society of Mechanical Engineers, New York, has released in tentative form the proposed American Standard for chucks and chuck jaws, as formulated by Technical Committee No. 11 of the Sectional Committee on Small Tools and Machine Tool Elements. In addition to this proposal, the Subcommittee has developed one for rotating air cylinders and adaptors. Those desiring a copy of the tentative draft with a view to transmitting comments to the Committee may obtain it by addressing C. B. LePage, assistant secretary, A. S. M. E., 29 West 39th street, New York.

INDUSTRIAL NEWS

Bucyrus-Monighan Company

Stockholders of the Monighan Manufacturing Company, Chicago, which was recently acquired by the Bucyrus-Erie Company, South Milwaukee, Wis., have voted to change the name of the company to the Bucyrus-Monighan Company, and directors of the Bucyrus-Erie Company have approved the action. The Bucyrus-Monighan Company will operate as a separate organization, except that sales will be handled by the Bucyrus-Erie sales organization. W. W. Coleman was elected chairman of the board, and G. A. Morison, vice chairman, in addition to the old officers who were re-elected as follows: O. J. Martinson, president, W. T. Brennen, vice president and treasurer, and H. W. Voss, secretary.

Arc Weld Method to Rebuild Track

Engineers of Joseph T. Ryerson & Son, Inc., Chicago, have made extensive investigations of the arc weld method of rebuilding railroad track, which is said to effect substantial savings in cost. With a view to producing equipment to meet various problems of the railroads, welding units have been developed for both A. C. and D. C. operation; single or two operator sets in several arrangements; transformers, generators, air and electric hammers, electric and gas engine power grinders, etc. All of these may be supplied by the Ryerson organization, which offers complete engineering and equipment service.

Woodworking Plant Offered

F. J. Lotterhos, trustee in bankruptcy, 1023 Standard Life Building, Jackson, Miss., will sell at public auction, on a date yet to be determined, a complete woodworking plant with dry kilns and spur track, suitable for the manufacture of furniture, automobile and truck body parts, etc. The plant is located at Jackson, where convenient railroad connections and natural gas are available. Real estate, buildings and machinery have been appraised at \$86,307.

Reduced Power Costs

As the result of practical application of recognized principles of power cost and efficiency, the Power Cost Engineering & Audit Corporation, San Antonio, Tex., claims to have been able to lower power costs for industrial and commercial power users. It acts as technical adviser in connection with recommendations for lowered electric, gas and water expense and bases its fees on a percentage of the established savings actually accruing to clients.

Financial Notes

Engineers Public Service Report

Gross earnings for February of the Engineers Public Service Company, New York, and constituent companies, operating largely in the South, amounted to \$4,229,453 as compared with \$4,288,385 for February, 1930. Net operating revenues amounted to \$1,836,719 for February, 1931, as against \$1,979,757 for the corresponding month last year. For the 12 months ended February 28, 1931, gross earnings were \$52,993,412, as compared with \$51,325,066 for the corresponding 12 months ended February 28, 1930.

General Electric Report

Notwithstanding the general business depression, the General Electric Company, Schenectady, N. Y., had a fairly successful year in 1930, with the greatest earnings in its history, except for 1929, according to the annual report of the company. Profit available for dividends amounted to \$57,490,915, equivalent, after dividends on special stock, to \$1.90 per share on 28,845,927 shares of no par common stock, compared with \$67,289,880 in 1929, or \$2.24 a share, and \$54,153,806 or \$1.79 a share for 1928 on the present number of shares. Orders received in 1930 amounted to \$341,820,312, compared with \$445,802,519 in 1929, and unfilled orders at the end of the year totalled \$56,062,000 compared with \$94,623,000 at the close of 1929. Sales billed for 1930 were \$376,167,428, compared with \$415,338,094 in 1929, a decrease of 9½ per cent. Net income from sales in 1930 amounted to \$40,450,261, as against \$49,395,896 in 1929, a decrease of 18 per cent. These figures do not include radio set and tube business, which was transferred to the Radio Corporation of America on January 1, 1930, except that derived from General Electric radios which were introduced the latter part of the year. The General Electric Realty Corporation was formed in 1930 to take over the real properties of the General Electric Company, other than active manufacturing plants and land held for the extension of these plants. Early in the year General Electric stockholders authorized an increase of common stock from 7,400,000 shares without par value to 29,600,000 shares without par value, a ratio of four to one. The average number of employees during the year was 78,380, compared with 87,933 in 1929.

Plans for stabilizing employment for its workers and to relieve the fear of unemployment have claimed the attention of the company for several years. A relief plan was adopted by each apparatus unit in the second half of 1930, and there are now 37,131 participants. Fundamental principles of the plan are: Joint and equal contributions by employees and the company; joint participation in the administration of the plan; aid through group action to those workers who are in need or require temporary loans, or who become unemployed, or for whom only part-time work is available; in time of unemployment emergency, cooperation and assistance from those employees of the company not usually affected by unemployment, and assistance by the company in equal amount. During 1930, a total of 321 employees' homes were financed by the company under its home-ownership plan.

American Zinc, Lead and Smelting Company

According to the annual report of the American Zinc, Lead and Smelting Company, St. Louis, Mo., and subsidiary companies, for the year ended December 31, 1930, profits from operation amounted to \$550,203, with a net profit, after allowing for depreciation and depletion, of \$190,662. Tonnages shipped in 1930 show decreases below 1929 as follows: Zinc products, 3.78 per cent; sulphuric acid, 33.06 per cent; quarry products, 48.88 per cent, and mine by-products, 12.82 per cent. Three dividends of \$1.50 each on the cumulative preferred stock totaling \$361,478, were paid during the year, the December dividend being omitted.

(Continued on page 64)

Statement of the ownership, management, circulation, etc., required by the Act of Congress of August 24, 1912, of MANUFACTURERS RECORD, published weekly at Baltimore, Md., for April 1, 1931.

State of Maryland,
City of Baltimore,

Before me, a Notary Public, in and for the State and City aforesaid, personally appeared Frank Gould, who, having been duly sworn according to law, deposes and says that he is the President of the MANUFACTURERS RECORD, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in Section 411, Postal Laws and Regulations, to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers are: Publisher, Manufacturers Record Publishing Co., Baltimore, Md.; editor, Frank Gould, MANUFACTURERS RECORD, Baltimore, Md.; managing editor, Howard L. Clark, MANUFACTURERS RECORD, Baltimore, Md.; business manager, Frank Gould, MANUFACTURERS RECORD, Baltimore, Md.

2. That the owner is Manufacturers Record Publishing Company, Baltimore, Md. Stockholders are: Frank Gould, MANUFACTURERS RECORD, Baltimore, Md.; C. R. Marchant, MANUFACTURERS RECORD, Baltimore, Md.; Wm. M. Beury, MANUFACTURERS RECORD, Baltimore, Md.; J. Robert Gould, MANUFACTURERS RECORD, Baltimore, Md.; Fleet-McGinley, Inc., Baltimore, Md.

3. That the known bondholders, mortgagees and other security holders owning or holding 1% or more of total amount of bonds, mortgages or other securities are: Baltimore Commercial Bank; estate of Richard H. Edmonds.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security-holders, if any, contain not only the list of stockholders and security-holders as they appear upon the books of the company, but also, in cases where the stockholder or security-holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security-holders who do not appear upon the books of the company as trustees hold stock and securities in a capacity other than that of a bona-fide owner, and this affiant has no reason to believe that any other person, association or corporation has any interest, direct or indirect, in the said stock, bonds or other securities than as so stated by him.

FRANK GOULD,
President.

Sworn to and subscribed before me this 26th day of March, 1931.

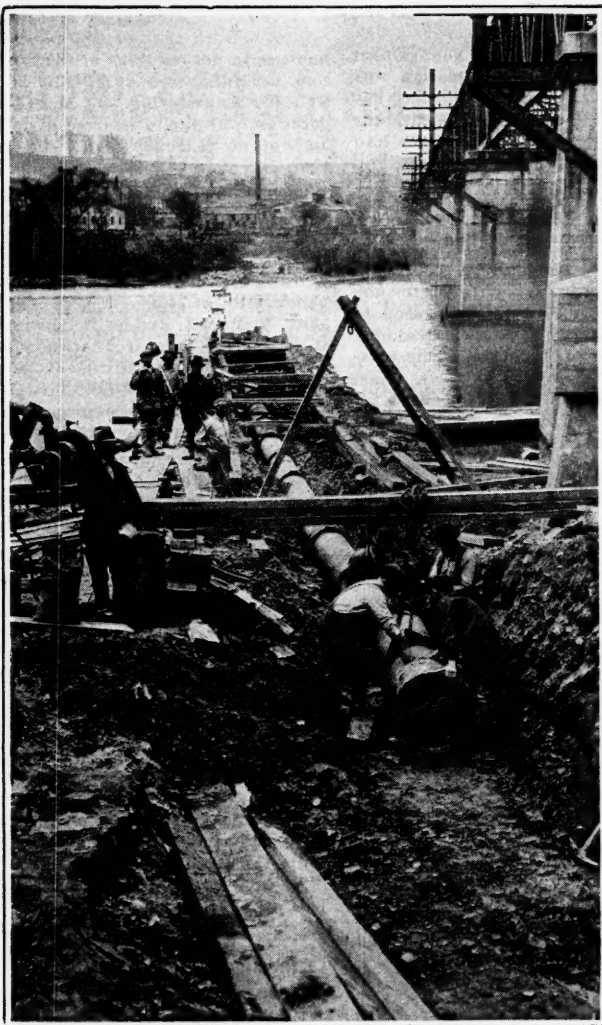
HARRY W. KLUTH.
(My commission expires May 4, 1931.)

Judging a House.—The National Committee on Wood Utilization of the Department of Commerce has published a new booklet, "How to Judge a House," designed to aid prospective renters or purchasers of homes. Essential details of construction and building materials are explained and practical hints given the non-technical house hunter.

Railroad Type Compressor.—The Sullivan Machinery Company, Chicago, Ill., is distributing bulletin 83-V, illustrating and describing the new Sullivan railroad type portable compressor, designed primarily for operating tie tampers, the various sizes having capacities from 4 to 16 tamper tools. The new compressor is available, however, for any pneumatic power service. It has been on display at the recent Railway Appliance Show at Chicago.

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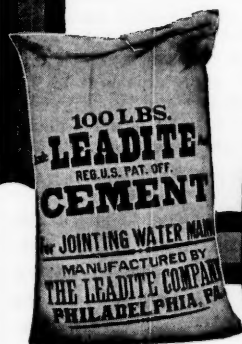
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Tested and used for over 30 years.
Saves at least 75%*

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Land Title Building Philadelphia, Pa.



No Caulking'



(Continued from page 62)

Republic Steel Annual Report

Gross profits from operation of the Republic Steel Corporation, Youngstown, Ohio, and its subsidiaries, for the year ended December 31, 1930, amounted to \$17,558,349, after deducting the cost of sales, including charges, aggregating \$10,069,193 for repairs and maintenance of plants. Operating profit, with earnings from investments and other income, amounted to \$9,506,191, while the net profit showed a loss of \$3,522,003, after adding \$300,000 for preferred dividends paid on guaranteed stock of the Trumbull-Cliffs Furnace Company, a subsidiary. The report states that the plants of the corporation are in good condition and since the first of the current year business has steadily improved. Production during 1930 is summarized as follows: Iron ore, 2,121,362 gross tons; coal, 2,169,064 net tons; coke, 2,266,632 net tons; pig iron, 1,549,197 gross tons; Bessemer, open hearth and electric ingots, 2,339,062 gross tons, and finished and semi-finished products, 2,211,604 net tons. In addition to the Trumbull-Cliffs Furnace Company, other principal subsidiaries include Steel and Tubes, Inc.; Union Drawn Steel Company, and the Berger Manufacturing Company. Southern district sales offices of the corporation and subsidiaries are in Birmingham, Dallas, El Paso, St. Louis, Tulsa and Atlanta.

Bethlehem Steel Report

Earnings of the Bethlehem Steel Corporation, New York, and its subsidiaries, for the year ended December 31, 1930, were the equivalent of \$5.26 per share of common stock as compared with \$15.50 per share on 2,273,333 shares in 1929, the average number of shares outstanding during the year, and \$11.01 per share on 3,200,000 shares outstanding at the end of that year. Net income for the year was \$23,843,406, as compared with \$42,242,980 for the preceding year. Operations of steel plants average 61.7 per cent of capacity as compared with 91.8 per cent in 1929, the corporation maintaining a satisfactory rate of operation during the first half of 1930, while the rate in the last half of the year steadily declined until the December rate was only 31.3 per cent of capacity, the lowest rate at which the steel plants have operated since July, 1924. Reduction in operations was accompanied by a decrease in selling prices during the year.

The value of shipments and deliveries by subsidiary companies, as represented by gross sales and earnings, was \$258,979,253 for 1930, as compared with \$342,516,207 for the preceding year, while the value of orders booked during 1930, including \$1,382,741 of orders on the books of the Pacific Coast Steel Company and the Southern California Iron & Steel Company on the date of the acquisition of their properties, aggregated \$241,344,965 as compared with \$369,536,888 for 1929. Unfilled orders on December 31, 1930, amounted to \$63,426,595 as compared with \$86,060,883 on December 31, 1929. Full dividends were paid on the preferred stock during the year and regular quarterly dividends of \$1.50 on the common stock.

Cash expenditures of \$47,158,004 were made for additions and improvements to properties in 1930, and it is estimated that \$14,820,000 will be expended to complete construction authorized and in progress as of December 31, 1930. Important items of construction now in progress are: Additional open hearth department and 40-inch universal slabbing mill at Sparrows Point, Md.; additional open hearth department at the Lackawanna plant; removal of 152-inch plate mill from the

Coatesville plant to Sparrows Point, where it will be increased in size to 160-inch, and installed in lieu of a proposed new 166-inch sheared plate mill; improvements to the by-product equipment of the Lackawanna coke oven plant and the complete rebuilding of a blast furnace at the Sparrows Point plant and one at the Lackawanna plant, together with installations of primary gas washers and equipment for cleaning and distributing blast furnace gas.

In March 1930, the company entered into an agreement to acquire the properties and assets of the Youngstown Sheet and Tube Company, but the agreement was attacked by minority stockholders of Youngstown Sheet and Tube and its consummation was enjoined by the court. This decision has been appealed. In October 1930, the corporation acquired all fabricating properties and business of McClintic-Marshall Corporation.

Louisville and Nashville Report

Railway operating revenues of the Louisville & Nashville Railroad Company, for the year ended December 31, 1930, amounted to \$112,440,985, according to the eightieth annual report of the board of directors. This compared with \$133,328,453 for the year ended December 31, 1929. Operating expenses for 1930 amounted to \$92,493,837, as compared with \$106,672,236, and net revenue from railway operations to \$19,947,147, as against \$27,656,216 for 1929. Net income for 1930 amounted to \$6,606,062, as compared with \$13,722,766 for 1929. The number of passengers carried in 1930 was 4,556,815, as compared with 6,289,602 in 1929, while revenue freight hauled in 1930 amounted to 51,735,263 tons, as against 59,812,757 tons in 1929.

During 1930 there was charged to road, additions and betterments a total of \$3,076,561, as compared with \$4,646,605 for 1929, and to equipment a net charge of \$3,282,483, as against \$5,113,298 in 1929.

A new line was constructed between Ca-wood, Ky., and Hagans, Va., 11.35 miles, and put in operation on December 1, 1930, with a line reconstructed from Chevrolet to Ca-wood, 3.28 miles, a total of \$4,479,868 having been expended on the two lines up to December 1. On the same date operation was begun under trackage rights over the Interstate Railroad from Norton, Wise County, Va., to Miller Yard in Scott County, Va., a distance of 17.37 miles. This completes the route between the Harlan coal fields and the Clinchfield Railroad. A 7.69-mile extension of the Left Fork branch line in Bell County, Ky., was begun in June, 1929, and put in operation in July, 1930, while the installation of block signals over 129.28 miles between East St. Louis and Maunle, Ill., begun in December, 1929, was completed in November, 1930.

The year saw the construction of a number of grade crossings, including an overhead bridge in Covington, Ky., completed in December, with the exception of paving approaches, which will be done this spring. Construction of another underpass was started in Covington last November. A grade crossing at Third and K streets, Louisville, Ky., was begun in December, 1929, and completed last October, and underpasses at Eighteenth and Twentieth streets, Birmingham, Ala., are being constructed under an agreement between the city and the Louisville & Nashville and the Alabama Great Southern Railroad. These are expected to be completed early in 1932. An underpass at Fourteenth street was completed last October. Work is progressing on reconstruction of bridge No. 36, over Doe Run on the Owensboro division; on a bridge over Cumberland River at Nashville, and on 17 other bridges at various

points. The company was also authorized to rebuild bridge No. 47 over the Tennessee River at Danville, Tenn. By order of the Interstate Commerce Commission, the Louisville & Nashville last year acquired the Carrollton Railroad, owning and operating a 10-mile line from Worthville to Carrollton, Ky.

Reports of Utilities Companies

Preliminary earnings of the Oklahoma Gas and Electric Company, Oklahoma City, for the 12 months ended December 31, 1930, show an increase of \$122,314 in gross earnings as compared with 1929, or 0.86 per cent, and an increase in net earnings of \$40,907 or 0.61 per cent, according to John J. O'Brien, president, Byllesby Engineering and Management Corporation, Chicago. Preferred dividends in the amount of \$1,190,536 were paid during the year.

The Louisville Gas and Electric Company, Louisville, Ky., and its subsidiaries had gross earnings for the year of \$10,566,387, as compared with \$10,338,008 for the preceding year, and net earnings of \$5,412,994, as compared with \$5,324,205 for 1929. The company paid preferred dividends during 1930 of \$1,320,550, as compared with \$5,326,212 for 1929, and common dividends of \$1,577,226, as compared with \$1,561,038 for the preceding year. It carried a balance to surplus of \$546,608, as compared with \$503,495 for 1929.

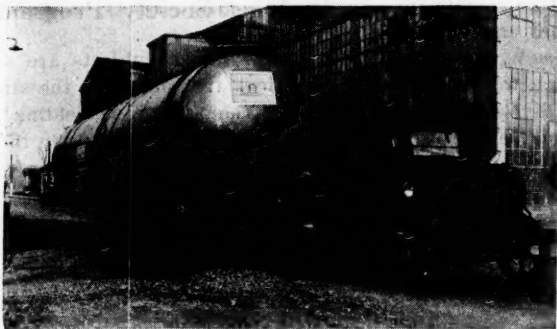
Both of these companies are in the system of the Standard Gas and Electric Company, Chicago, and are under the management of the Byllesby Engineering and Management Corporation.

Southern Railway Report

Total revenue from operation of the Southern Railway Company for the year ended December 31, 1930, amounted to \$118,868,608, a decrease of \$24,315,340, or 16.98 per cent, as compared with 1929, according to thirty-seventh annual report of the company. This decline was partly offset by a reduction of \$14,492,576 in the expense account. Freight moved during the year amounted to 38,608,638 tons, as compared with 44,546,151 for 1929, while the ton miles amounted to 7,167,544 in 1930, as compared with 8,350,518 for 1929. Total freight revenue for 1930 was \$91,799,046, as compared with \$107,962,042. The number of passengers handled in 1930 was 4,633,872, as against 6,367,720 handled in 1929, and total passenger revenue was \$17,129,081, as compared with \$22,004,662.

The balance of income after the payment of fixed charges and the preferred stock dividend was equivalent to \$4.72 per share on the common stock, as compared with \$11.65 per share in the preceding year. The net increase in capital investment in physical property during the year was \$5,044,549, construction including new freight depots at Durham and Lexington, N. C.; locomotive fuel handling plants at Allendale, S. C., and Wilton, Ala.; installation of water treating plants at 19 points along the railroad; 4-track team yard at Atlanta; additional passing tracks at 11 points to accommodate longer trains; elimination of 24 highway grade crossings by the construction of viaducts and underpasses, and the laying of 115 miles of new 100-pound rail and 61 miles of 130-pound rail.

The Inland Waterways Corporation, Washington, Major General T. Q. Ashburn, U. S. A., chairman and executive, awarded contract at \$163,365 to the McClintic-Marshall Corp., Bethlehem, Pa., for two steel car floats.



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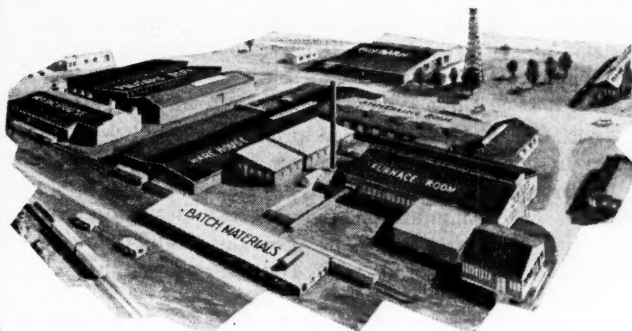
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National Airport Conference

Tulsa, Okla., April 6—[Special.]—Tulsa last week was host to airport managers, operators and engineers from virtually every state, as well as from Canadian provinces, at the third annual National Airport Conference. At the concluding session of a three-day program the conference took a step toward nation-wide adoption of uniform aviation legislation, suggested by the Department of Commerce. Fresno, Cal., was selected as the 1932 conference city.

Visiting delegates discussed progress made in the building of passenger and transport planes, problems of flying and methods of communication and control of aerial transportation. The program was opened by Major John Leavell of Tulsa, a director of the recently organized International Air Express. Addresses were made at the opening luncheon by Mayor George Watkins and R. B. Barnitz, Director of Airports for Los Angeles, and chairman of the Airport Division of the Aeronautic Chamber of Commerce. Recently developed equipment was demonstrated at the Garland Airport.

Mr. Barnitz in stressing the magnitude of airport development, pointed out that the nation now has nearly 1200 recognized airports, representing a capital outlay of more than \$135,000,000. "We are serving an industry and a mode of transportation that have not yet begun to reveal their possibilities," Mr. Barnitz said. "Hence, we are charged with the need of knowing how to manage our ports in such a way that they will not only prove adequate to present requirements, but will adapt themselves toward whatever new directions aeronautics may take."

American Architecture Changing

Washington, D. C.—According to a recent statement by Harvey Wiley Corbett, New York, chairman of the architectural commission of the Chicago World's Fair in 1933, recently made public by the American Institute of Architects, imitation in architecture will be rejected and an architecture of more splendor than the world has ever known will be created by architects and producers. Because producers have engaged in scientific research and have devised new materials with which to build, architects are now moving away from older conceptions, according to Mr. Corbett, who is quoted as saying that "the architect must step into that picture and use these things intelligently, make functionalism a basis of design and move along in his art with the science of the producers. Architects today look upon producers as collaborators in this great

building industry, the largest single industry in the world. They expect producers, in their capacity as manufacturers, to help in the research work which must be done to solve mutual problems."

A close working alliance between architects and producers is now taking place, according to Mr. Corbett, and Producers Council Clubs have been organized in New York and other cities by the Producers Council, a national body representing most of the major manufacturers of building materials and equipment in the United States. These clubs are expected to multiply rapidly in 1931 and serve as public forums for the study and discussions of problems confronting producers, architects, engineers, contractors, builders and other groups.

Business Stabilization

Possibilities of business stabilization will be appraised at the annual meeting of the Chamber of Commerce of the United States in Atlantic City, April 28 to May 1. Among the subjects to be considered are: Effects of government competition on business; government policy in relation to limitations on production and marketing; effects of anti-trust laws; agriculture and land policy; the business cycle, and industrial stabilization. The main theme will be "Business Leadership and the Public."

In addition to general subjects to come before the main sessions, a series of round-table conferences will afford an opportunity for each of the principal groups of trade and industry to discuss more freely some of their special problems. Among these topics are: "Can Overproduction in the Natural Resources Industries Be Prevented?" "What Is Fair Competition in Transportation?" "Factors in Foreign Trade Recovery," and "Stabilizing Industrial Employment."

Restoring Telephone Lines

Salisbury, Md.—Lines on the Eastern shore of Maryland of the Chesapeake & Potomac Telephone Company of Baltimore, which suffered an estimated damage of about \$500,000 in a recent snow storm, will be restored permanently as soon as details may be worked out, which will probably be several weeks. The company has a large force at work making temporary repairs with a view to restoring all connections as soon as possible. In the meantime plans for permanent improvements will be made, including repairs to damaged sections of lines not altogether destroyed, re-routing and reconstruction of lines damaged to a large extent, and the installation of cables to replace individual lines where practical.

Welding Society Program

Many and varied subjects are slated for practical treatment at the annual meeting of the American Welding Society, April 22-24, with sessions in the Engineers Societies Building, New York City. A feature will be an inspection of the New York Hospital and Cornell Medical Center, to study a system involving over 50,000 feet of welded piping, ranging in size from 2½ to 24 inches, for hot water, brine and steam for high pressure and low pressure service.

In a paper on "Welded Machinery Foundations for Ships," G. H. Moore, Jr., Newport News Shipbuilding & Dry Dock Co., will describe economies in design and erection, and J. C. Hodge, Babcox & Wilcox Company, will tell about "Welded Bollers for Scout Cruisers." D. C. Tennant of the Dominion Bridge Company will illustrate his paper on "Some Examples of Welding in Structural Steel Work." The applicability of gas welding for structural steel fabrication is to be demonstrated by H. H. Moss, Linde Air Products Co.; "Some Resistance Welding Problems" will be discussed by C. L. Pfeiffer, Western Electric Company, and "The Effect of Welding Procedure on Shrinkage Strains in Butt Welded Joints" is the topic assigned to C. H. Jennings, Westinghouse Electric and Manufacturing Company.

Other features on the program are: "Formulae for Eccentrically Welded Connections," Odd Albert, New Jersey Highway Commission; "Fusion Welding as Applied to High Pressure Heat Exchangers," Marsellis Powell, Whitlock Coil Pipe Co.; "Welding of Heating and Industrial Piping," J. H. Zink, Heating and Piping Contractors National Association; "Thermit Welding in Maintenance in Steel Mills," J. H. Deppeler, Metal & Thermit Corporation; "Metal Arc Welding of Copper Alloys," I. T. Hock, American Brass Company; "High Tensile Atomic Hydrogen Arc Welds in Alloy Steels," Frederick Ray, Croll-Reynolds Engineering Company.

A draft of a code for pressure piping also will be discussed.

\$6,500,000 Railway Bridge

Henderson, Ky.—Bids will be opened April 15 in the office of W. H. Courtenay, chief engineer of the Louisville & Nashville Railroad Company, Louisville, for constructing foundations and piers of the river spans of a new bridge across the Ohio River here for the railroad. Plans call for four 500-foot spans and one 675-foot channel span. The cost of building the new bridge, approaches on both sides of the river and for dismantling the old bridge is estimated at \$6,500,000.

Excerpts from the Eightieth Annual Report of Louisville & Nashville Railroad Company

Year Ended December 31, 1930

TABLE NO. 1
INCOME ACCOUNT

RAILWAY OPERATING INCOME—	
Railway Operating Revenues	\$112,440,985.10
Railway Operating Expenses, 82.26 per cent.....	92,493,837.35
Net Revenue from Railway Operations, 17.74 per cent.....	19,947,147.75
Railway Tax Accruals	\$6,233,951.36
Uncollectible Railway Revenues	16,421.86
	6,250,373.22
Total Operating Income	13,696,774.53
NONOPERATING INCOME—	
Equipment Rents—	
Hire of Freight Cars—Credit Balance	\$1,146,952.24
Rent from Locomotives	44,893.69
Rent from Passenger-Train Cars	226,509.09
Rent from Work Equipment	35,454.64
	1,453,809.66
Joint Facility Rent Income	289,527.95
Income from Lease of Road—	
Clarksville & Princeton	
Branch	\$12,039.70
Paducah & Memphis	
Division	206,506.20
	218,545.90
Miscellaneous Rent Income	130,764.21
Miscellaneous Nonoperating Physical Property	76,101.69
Separately Operated Properties—Profit	401,500.00
Dividend Income—	
Chicago, Indianapolis & Louisville R'y Co.	420,709.50
Nashville, Chattanooga & St. Louis R'y.	976,152.00
Sundry Stocks	63,445.58
From stocks held under Georgia Railroad Lease	97,444.00
	1,557,751.03
Income from Funded Securities—	
Sundry bonds and notes maturing more than two years after date....	394,994.95
From bonds held under Georgia Railroad Lease	620.00
	395,614.95

Income from Unfunded Securities and Accounts	889,093.34
Income from Sinking Funds.....	49,064.64
Miscellaneous Income	4,422.70
	3,722,858.51
Total Nonoperating Income	5,466,196.12
Gross Income	19,162,970.65
DEDUCTIONS FROM GROSS INCOME—	
Equipment Rents—	
Rent for Locomotives.....	71,125.03
Rent for Passenger-Train Cars.....	272,392.13
Rent for Work Equipment.....	14,771.43
	358,288.59
Joint Facility Rents.....	1,074,910.33
Rent for Leased Roads—	
Nashville & Decatur Railroad	134,867.49
Louisville, Henderson & St. Louis R'y.	146,224.80
Rents of other roads.....	99,467.79
	380,560.08
Miscellaneous Rents	47,849.29
Miscellaneous Tax Accruals	20,336.68
Interest on Funded Debt.....	10,556,912.53
Interest on Unfunded Debt.....	90,249.35
Miscellaneous Income Charges—	
U. S. Income Tax Paid on Interest on Tax-Exempt Bonds.....	20,620.66
Fees and Expenses paid Mortgage Trustees ..	7,160.99
	27,781.65
	11,123,689.58
Total Deductions from Gross Income.....	12,556,888.50
Net Income	6,606,082.15
DISPOSITION OF NET INCOME—	
Income applied to Sinking Funds.....	145.84
Income Balance Transferred to Credit of Profit and Loss	\$6,605,936.31

TABLE NO. III
GENERAL BALANCE SHEET

Dr.		GENERAL BALANCE SHEET		Cr.	
		Assets			
INVESTMENTS:					
Investment in Road Equipment—					
Road	\$302,563,133.42				
Equipment	153,835,536.70				
(Table VI)	\$456,398,670.12				
Improvements on Leased Railway Property (Table VI)	2,322,076.16				
Sinking Funds—					
Total Book Assets	602,077.66				
Bonds, this Company's Issue (Table V)	67,000.00				
	535,077.66				
Deposits in Lieu of Mortgaged Property Sold.....	7,495.82				
Miscellaneous Physical Property.....	2,792,098.62				
Investments in Affiliated Companies—					
(a) Stocks (Table V)	19,616,500.70				
(b) Bonds (Table V)	1,753,824.21				
(c) Notes	941,072.87				
(d) Advances	2,962,732.55				
	25,273,930.33				
Other Investments—					
(a) Stocks (Table V)	2,011,057.99				
(b) Bonds (Table V)	5,888,904.20				
(c) Notes	94,895.00				
(d) Advances	1,000.00				
	7,995,857.19				
	\$495,325,205.90				
CURRENT ASSETS:					
Cash	11,890,607.61				
Time Drafts and Deposits.....	13,320,470.71				
Special Deposits—					
Total Book Assets	648,246.50				
Bonds, this Company's Issue (Table V)	500,000.00				
Stock (Table V).....	\$5.00				
Cash	148,241.50				
	148,246.50				
Loans and Bills Receivable.....	57,344.18				
Traffic and Car-Service Balances Receivable.....	2,604,901.85				
Net Balance Receivable from Agents and Conductors..	621,620.45				
Miscellaneous Accounts Receivable.....	1,998,264.84				
Material and Supplies	10,968,108.76				
Interest and Dividends Receivable.....	333,699.62				
Rents Receivable	92,064.10				
Other Current Assets	27,338.33				
	42,062,666.95				
DEFERRED ASSETS:					
Working Fund Advances	58,097.59				
Other Deferred Assets—					
Southern Railway Company's Proportion of Bonds Issued Jointly....	5,913,500.00				
Other Accounts	1,090,421.86				
	7,003,921.86				
	7,062,019.45				
UNADJUSTED DEBITS:					
Rents and Insurance Premiums Paid in Advance....	9,740.00				
Other Unadjusted Debits	1,530,778.98				
	1,540,519.07				
Securities Issued or Assumed—Unpledged (Table V)					
Securities Issued or Assumed—Pledged (Table V)....	5,129,000.00				
CONTINGENT ASSETS:					
L. & N. Terminal Co. Fifty-year 4 per cent Gold Bonds	2,500,000.00				
Memphis Union Station Co. First Mortgage 5 per cent Gold Bonds	2,500,000.00				
The Cincinnati Union Terminal Co. First Mortgage 4½ per cent Gold Bonds, Series "A".....	12,000,000.00				
	17,000,000.00				
GRAND TOTAL					
	\$562,990,411.37				

TABLE NO. III
GENERAL BALANCE SHEET

STOCK:		
Capital Stock—		
Full shares outstanding.....	\$116,860,700.00	
Fractional shares outstanding.....	720.00	
Original stock and subsequent stock dividends unissued	138,580.00	
	<u>\$117,000,000.00</u>	
Premium on Capital Stock.....	12,116.76	
	<u>\$117,012,116.76</u>	
GOVERNMENTAL GRANTS:		
Grants in Aid of Construction.....		134,027.24
LONG TERM DEBT:		
Funded Debt—Unmatured—		
Book Liability	326,467,570.00	
Held by or for this Company (Table V)		
In Treasury	87,783,500.00	
Deposited as Collateral	5,129,000.00	
Special Deposit	500,000.00	
In Sinking Funds	67,000.00	
	<u>93,479,500.00</u>	
Actually outstanding (Table IV).....	232,988,070.00	
Liability of Southern Railway Company for Bonds Issued Jointly with this Company.....	5,913,500.00	
	<u>238,901,570.00</u>	
Nonnegotiable Debt to Affiliated Companies—Open Accounts	21,186.01	
	<u>238,922,756.01</u>	
CURRENT LIABILITIES:		
Traffic and Car-Service Balances Payable.....	772,748.35	
Audited Accounts and Wages Payable.....	5,701,197.94	
Miscellaneous Accounts Payable	1,295,151.06	
Interest Matured Unpaid	1,733,996.00	
Dividends Matured Unpaid	233,264.50	
Funded Debt Matured Unpaid (Table IV).....	61,200.00	
Unmatured Dividends Declared	4,095,000.00	
Unmatured Interest Accrued	1,872,810.82	
Unmatured Rents Accrued	31,182.62	
Other Current Liabilities	171,688.58	
	<u>15,968,239.87</u>	
DEFERRED LIABILITIES:		
Other Deferred Liabilities		1,102,462.84
UNADJUSTED CREDITS:		
Tax Liability	2,594,286.12	
Accrued Depreciation—Road	18,052,739.80	
Accrued Depreciation—Equipment	50,613,980.88	
Accrued Depreciation—Miscellaneous Physical Property	259,009.03	
Other Unadjusted Credits	6,273,876.93	
	<u>77,798,942.76</u>	
CORPORATE SURPLUS:		
Additions to Property through Income and Surplus..	2,827,435.52	
Sinking Fund Reserves	53,004.50	
Appropriated Surplus not Specifically Invested.....	231,731.22	
	<u>3,112,171.24</u>	
Profit and Loss—Balance	91,939,694.65	
	<u>95,051,865.89</u>	
CONTINGENT LIABILITIES:		
L. & N. Terminal Co. Fifty-year 4 per cent Gold Bonds	2,500,000.00	
Memphis Union Station Co. First Mortgage 5 per cent Gold Bonds	2,500,000.00	
The Cincinnati Union Terminal Co. First Mortgage 4½ per cent Gold Bonds, Series "A".....	12,000,000.00	
	<u>17,000,000.00</u>	
GRAND TOTAL		\$562,990,411.37

FINANCIAL NEWS

Bond Issues Proposed

Ala., Gadsden—Etowah County votes Apr. 14 on \$200,000, not exceeding 5½% warrant refunding bonds.

Fla., Jacksonville—City call election in early summer for freeholders on \$1,700,000 improvement bonds, including funds for paving 21st St.

Fla., Wauchula—City Council approved \$94,000, \$1000 denom. refunding bonds.

Ga., Camilla—Mitchell County Baconton Consolidated School Dist. votes within 60 days on \$25,000 bonds.

La., Baton Rouge—State Bd. of Liquidation of State Debt, sell \$2,000,000 bonds for pensions for war veterans and veterans' widows.

La., Baton Rouge—State Bd. of Liquidation of State Debt, L. B. Baynard, Jr., Sec., authorized issuance of approx. \$500,000 bonds to provide for tax relief of 16 parishes; to be sold about April 15.

La., Lake Charles—Lake Charles Harbor & Terminal Dist. voted \$700,000 bonds. 3-5

La., Natchitoches—City Bd. of Education, E. A. Lee, Sec., defeated \$20,000 school bonds. 2-26

Md., Annapolis—State, Albert C. Ritchie, Governor, authorized by Legislature to issue \$7,633,000 construction bonds: \$5,663,000, general building through state during next 2 years; \$2,000,000, reconstruction and repairs to state bridges.

Md., Cambridge—Council for Bd. of Comms. directed to prepare bill to be presented to Legislature providing for \$350,000 sewerage disposal plant bonds.

Md., Frederick—City, Bd. of Aldermen, instructed Edward J. Smith, City Attorney, to draft ordinance authorizing bond issues aggregating \$235,000: \$200,000, waterworks; \$35,000, airport; 4½% interest. 4-2

Md., Rockville—Montgomery County authorized by Legislature to sell \$1,200,000 bonds for parks.

Md., Salisbury—City, E. J. C. Parsons, City Clk., opens bids Apr. 13 for \$75,000, 4½%, \$1000 denom. water and sewer extension bonds.

Md., Smithsburg—City voted \$35,000 water bonds.

Md., Upper Marlboro—Prince George's County authorized by Legislature to sell \$800,000 for park development.

Miss., Jackson—State Bond Comsn. sell \$1,000,000 bonds for completion of hospital for insane, Rankin County.

Miss., Jackson—State Bond Comsn. sell \$1,000,000 bonds Apr. 30 for completion of hospital for insane, Rankin County.

Miss., Jackson—State Bond Comsn., Jackson, hold meeting for selling \$5,000,000 bonds to take up guaranty bank certificates.

Miss., Morton—Morton Special Consolidated School Dist., John Lee Gainey, Supt., voted \$55,000 school bonds. 2-19

Mo., DeSoto—City, H. W. Harris, Clk., plans voting on \$95,000 power distribution system bonds.

Mo., Moberly—City, J. B. Holman, Clk., may vote on \$600,000 electric light bonds.

Mo., Springfield—City, E. J. Cogley, Commr. of Finance, defeated \$700,000, 4½% sewer extension bonds. 4-5

N. C., Roxboro—Local Government Comsn., Chas. M. Johnson, Sec., opens bids Apr. 13 for \$87,500, not exceeding 6% in multiple of ¼ of 1%, \$1000 denom. (except one bond of \$500): \$75,000 street and sidewalk; \$12,500, street improvement.

N. C., Kenansville—Duplin County authorized by Legislature to issue \$40,000 prison bonds.

N. C., Wilkesboro—Local Government Comsn., Chas. M. Johnson, Sec., Raleigh, N. C.—Opens bids Apr. 13 for \$127,000, \$1000 denom., not exceeding 6% Wilkes County school funding bonds.

Okla., Wewoka—City may vote on \$45,000 sewerage system bonds.

Tenn., Collierville—City, W. W. Hutton, opens bids Apr. 20 for \$30,000, 4, 4½, 4¾, 5 or 5½%, \$1000 denom. general liability serial coupon bonds.

Tenn., Erwin—Unicoi County authorized by Legislature to issue \$30,000, not exceeding 6%, \$1000 denom. school bonds.

Tenn., Huntingdon—Huntingdon Special School Dist. authorized by Legislature to issue \$25,000, not to exceed 6% school bonds; to be sold at not less than par.

Tenn., Lebanon—City, C. O. Dodson, Commr. of Finance and Revenue, opens bids Apr. 15 for \$200,000, 5%, \$1000 denom. waterworks bonds.

Tenn., Memphis—Shelby County authorized by Legislature to issue \$60,000, not exceeding 5% Bolton College refunding bonds.

Tenn., Memphis—City, D. C. Miller, City Clk., authorized by Legislature to issue \$1,300,000, not to exceed 6% bonds: Improvement, \$850,000; sewer and drainage, \$450,000.

Tenn., Morristown—City votes Apr. 29 on \$40,000 municipal building bonds.

Tenn., Savannah—Hardin County authorized by Legislature to issue \$64,000, not exceeding 6% school bonds; to be sold at not less than par.

Tenn., Tazewell—Claiborne County authorized by Legislature to issue \$100,000, not exceeding 5½% courthouse and jail bonds.

Tex., Austin—State Senate passed \$212,000, 000 highway bond issue resolution.

Tex., Beaumont—City Comsn. voted to open bids Apr. 22 for \$1,100,000 bonds: Dock and wharf improvements and extensions, \$600,000; street and highways, \$200,000; sewerage, \$150,000; waterworks, \$50,000; South Texas State Fair, \$100,000.

Tex., Beeville—Beeville Independent School Dist. voted \$125,000 school bonds. 3-19

Tex., De Leon—City Comsn. authorized to order election on gas plant bonds.

Tex., Wellington—City votes Apr. 21 on \$80,000, 5½% gas distribution system bonds.

Tex., Edna—Jackson County votes Apr. 25 on \$120,000 Road Dist. No. 1 bonds, in the event \$2,000,000 bond issue is not voted on Apr. 18. 4-2

Tex., Grapevine—Grapevine Independent School Dist. soon vote on \$50,000 high school bonds.

Tex., Palestine—City may vote on \$20,000 airport bonds.

Tex., Pampa—Gray County, voted \$2,256,000 road bonds. 3-5

Tex., Port Arthur—City Comsn. authorized sale of remaining portion of \$300,000 seawall bonds.

Tex., Silsbee—City, Bd. of Education, call election in few days on \$60,000 bonds.

Tex., Wichita Falls—City, Walter Nelson, Mayor, plans voting on \$450,000 water bonds. 3-26

Tex., Wichita Falls—Wichita Falls Irrigation Dist. No. 2 votes Apr. 25 on \$430,000 bonds.

W. Va., Parkersburg—City, Allen C. Murdock, Mayor, voted \$1,095,000 bonds: \$445,000, public improvement and establishing public equipment; \$350,000, paving; \$300,000, enlarging waterworks system and storm sewers. 1-15

Bond Issues Sold

Ala., Birmingham—City sold \$2,000,000 tax anticipation notes to M. M. Freeman & Co., Inc., at 2.95% plus \$75 premium.

Ga., Waycross—City, Walter E. Lee, City Treas., sold \$175,000 general improvement bonds to Citizens & Southern Co., Atlanta. 3-12

Ky., Woodland—Woodland Consolidated School Dist. sold \$25,000, 5% school bonds to Robinson-Humphrey Co., Atlanta. 10-23-30

La., Baton Rouge—State Bd. of Liquidation of State Debt, L. B. Baynard, Jr., Sec., reported, sold \$5,000,000 4¼% capital building bonds to syndicate composed of Guarantee Trust and Savings Bank, and Bankers Trust Co., both New York; City Savings Bank, Shreveport, and Rapides Bank & Trust Co., Alexandria, at \$2500 premium. 3-26

Miss., Greenwood—City sold \$10,000 school bonds to Merchants Bank & Trust Co., Jackson, at par.

Mo., Kansas City—Kansas City School Dist. No. 4 sold \$500,000, 4% bonds to Harris Trust & Savings Bank, Chicago, at 102.008.

Mo., Sullivan—City, S. H. Sullivan, Mayor, sold \$22,000, 5%, \$1000 denom. sewer extension and septic tank bonds to Bank of Sullivan at par and accrued interest. 3-26

N. C., Raleigh—City sold \$100,000 bond anticipation notes to North Carolina Corp., as 3¼s, at par.

Okla., Enid—Garfield County sold \$15,000 school bonds to Brown-Crummer Co., Wichita, Kans., at 100.06.

S. C., Myrtle Beach—Myrtle Beach School Dist. sold \$15,000 bonds to South Carolina National Bank, Charleston.

New Financial Corporations

N. C., Rocky Mount—Peoples Bank & Trust Co., capital \$100,000, chartered; R. R. Gay, D. J. Ross.

Tenn., Camden—Benton County National Bank, A. S. Justice, capital \$25,000, applied to Treasury Dept., Washington, for permission to organize.

Tenn., Nashville—James E. Caldwell & Co., capital \$100,000, chartered; stocks and bond brokerage; James E. Caldwell, Thomas C. Buntin.

Tex., San Antonio—First National Co., capital \$10,000, chartered; W. G. Church, J. V. Graves; bonds, etc.

City National Bank, W. S. Rowland, V. Pres., and Farmers' State Bank, A. L. Flint, Pres., both Temple, Tex., merged; to be known as Farmers' State Bank, with Claude D. Seybold, Pres., and A. L. Flint, Chmn. of Bd.

Bank of Black Mountain acquired Commonwealth Bank & Trust Co., A. A. Hegeman, Pres., both Black Mountain, N. C.

Central State Bank, C. T. Hutchinson, Pres., acquired Farmers & Merchants' National Bank, both Abilene, Tex.

Commercial National Bank, T. L. Evans, Pres., and Bank of Lafayette & Trust Co., J. C. Barry, Pres., both Lafayette, La., merged; T. L. Evans, president of merged bank.

First State Bank, C. B. Williams, Pres., acquired portion of assets of Western National Bank, G. A. F. Parker, Pres., both Hereford, Tex.

People's Bank of Rutledge, A. M. Nance, Pres., and Citizens' Bank & Trust Co., N. J. Johnson, Pres., both Rutledge, Tenn., merged.

Robert L. Reeves, Paducah, Ky., and associates acquired Peoples National Bank, Paducah, Ky., directors elected include Robert L. Reeves, Fort Abell, F. E. Davis and Frank J. Kolb.

Protecting Florida Municipal Bonds

In view of important practical results recently effected in adjusting municipal bond defaults in Florida, a protective committee is now being organized to protect holders of St. Petersburg securities, of which there are said to be some \$24,000,000 outstanding. Prominent among existing committees which have been formed in connection with Florida municipal defaults are those of Sanford, West Palm Beach, Lake Worth and Coral Gables. In some instances two committees were formed by the same community. The Sanford committee is said to have accomplished such substantial benefits for bond holders that the position of these bond holders has been greatly improved.

\$500,000,000 Stock Increase

Stockholders of the American Telephone and Telegraph Company, New York, have approved an increase of \$500,000,000 in authorized capital stock of the company, bringing the total capitalization to \$2,500,000,000. The increase was made to take care of future needs of the company and it is said that no stock issue or other financing is expected during the current year.

WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

Electric Bond and Share Company

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The South's Business

Our experience and success warrant our wanting to identify this bank further with the business and progress of the South.

Inquiries about our service will be treated as coming from friends.

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GWYNN CROWTHER, President

26 South Street, Baltimore Md.

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Member Federal Reserve System

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We will gladly give agricultural information and send literature about our section—the East Coast of Florida.

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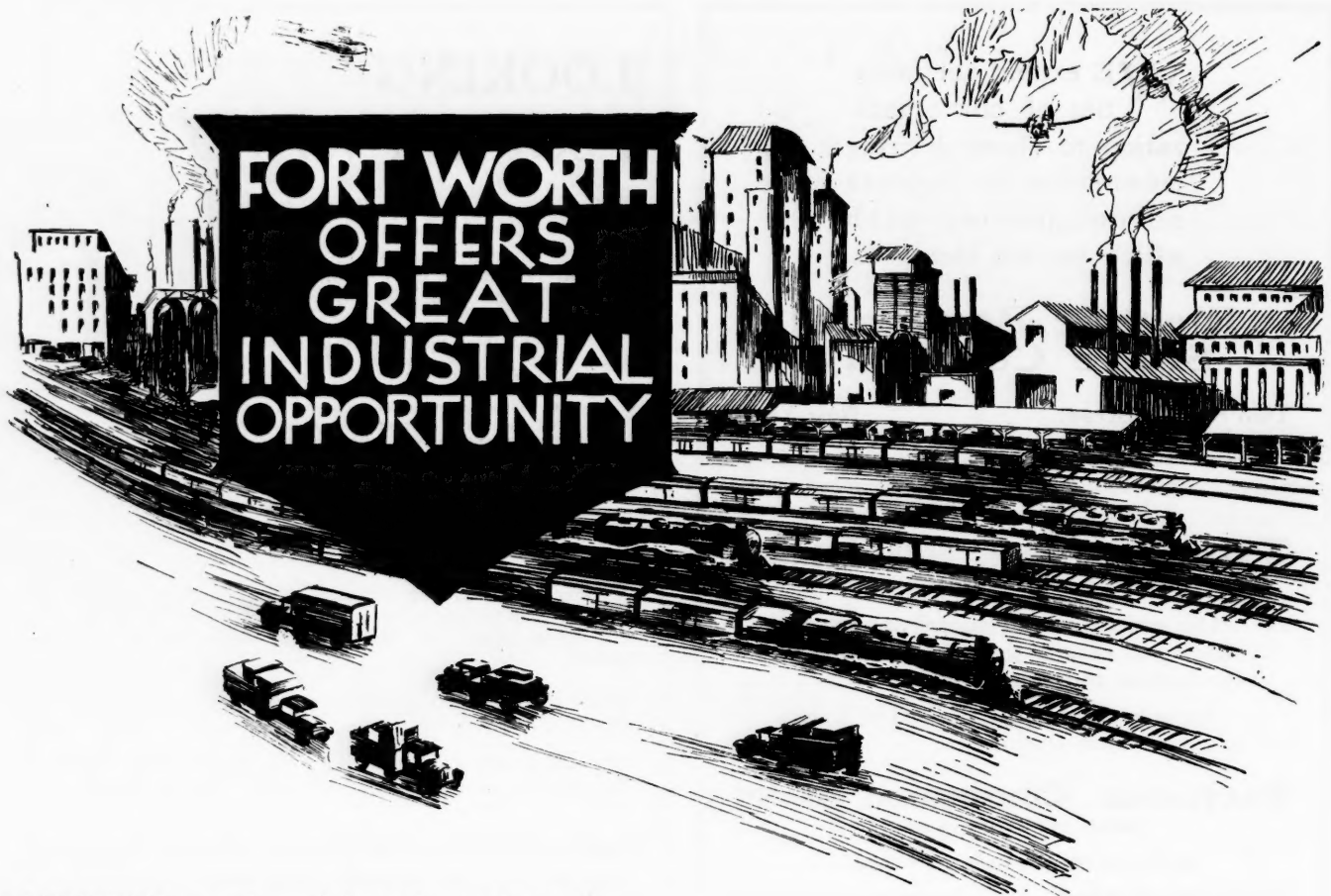
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MARKETS—preferential trade territory for six million people—new railroad construction now under way or about to start will give Fort Worth the equivalent of five new rail outlets into West Texas and Central and Western Oklahoma. This construction involves more than 1,200 miles of new lines which will be built at a cost of \$50,000,000.

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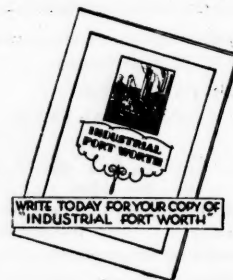
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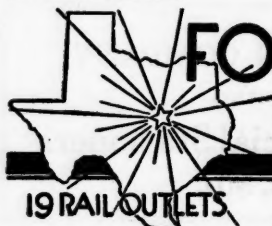
THE CAPITAL OF A NEW EMPIRE—the population of 132 counties comprising West Texas has increased from 733,430 in 1900 to 1,889,396 in 1930. The last Census of Agriculture showed the annual value of West Texas crop production to be \$23.73 per acre—this return from lands selling at \$35.00 to \$75.00 per acre.

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P R O M I S E S

MORE than half of the world's business involves promises—on paper, by word of mouth, by telephone, by telegraph. A large proportion of such promises concern the movement of merchandise or passengers by train; they consist of orders for cars, for merchandise or for reconsignments; Pullman reservations or matters concerning freight rates or passenger fares. And the railroads are noteworthy for the promises they keep—and for those they make possible.



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It meets the growing demand for information about the South and is continuously referred to. Nowhere else can there be obtained such complete data in handy reference form for the executive and professional man. It is a recognized authority on all questions relating to Southern resources and development.

Through the advertising pages a splendid opportunity is offered those interested in developing business in the South and Southwest.

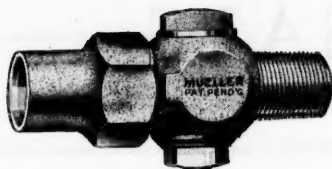
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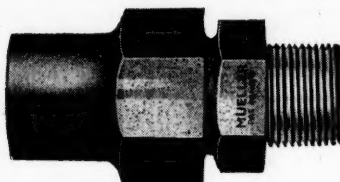


G-15000

Size, Inches $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2"

Inlet—MUELLER thread

Outlet—MUELLER SERVICE PIPE
same size as Corporation Stop except
 $\frac{5}{8}$ " size which is for $\frac{3}{4}$ ".



*MUELLER Service Pipe Coupling
Copper Pipe to Iron Pipe, Outside Thread*

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Waterworks Engineers know that the working parts of a service line must be good. For instance, they must be of highest quality metal, well molded and accurately machined in order to perform in a befitting manner. The key itself must be perfectly ground and close fitting.

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PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close April 28, 1931.

U. S. Engineer Office, P. O. Box 667, Vicksburg, Mississippi. Sealed bids will be received at this office until 10 o'clock A. M., April 28, 1931, and then opened, for constructing and delivering afloat at Vicksburg, Mississippi, one 16 inch self-propelled pipe line dredge complete.

Bids close May 5, 1931.

U. S. Engineer Office, 300 Custom House, Baltimore, Md. Sealed proposals will be received here until 3 P. M., Eastern Standard Time, May 5, 1931, and then publicly opened, for dredging approximately 99,056 cubic yards of material, place measurement, in Broad Creek River, Del., 65,187 cubic yards in Corsica River, Md., and 16,663 cubic yards in Kent Island Narrows, Md.

Bids close April 30, 1931.

DEPARTMENT OF THE INTERIOR, Washington, March 23, 1931. Sealed proposals in duplicate will be received at the Department of Interior until 2 o'clock p. m., Thursday, April 30, 1931, for furnishing all labor and materials for constructing at St. Elizabeths Hospital, Washington, D. C., one Tuberculosis Building, No. 1, including roads, walks, grading and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cut stone work, marblework, floor and wall tile, compressed asphalt tile, terrazzo floors, linoleum floors, ironwork, steel sash, steel stairs, tile and metal roofing, roof ventilators, metal lathing, plastering, carpentry, metal weatherstrips, insect screens, window shades, painting, glazing, hardware, plumbing, heating and ventilating, electrical work, electric elevator, and outside service connections. Separate bids will be received for electric elevator, as per bid form. Bids will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and in making award, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. Drawings and specifications may be obtained upon application to the Construction Division, U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C. A certified check for \$50 payable to the Treasurer of the United States, will be required as a guaranty for the safe return of the plans loaned. Special attention is invited to requirements of the Act of March 3, 1931, regarding rate of wages, set forth in the specifications. Time of performance will be considered an element in awarding the contract. The right is reserved to reject any or all bids, waive technical defects, accept one part and reject the other as the interests of the Government may require. Proposals must be securely enveloped, marked "Proposal for construction of Tuberculosis Building, St. Elizabeths Hospital," and be addressed to the Secretary of Interior, Washington, D. C. JOS. M. DIXON, First Assistant Secretary.

Bids close April 30, 1931.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764, Arlington Building, Washington, D. C., until 2:30 P. M., April 30, 1931, and then publicly opened, for furnishing all labor and materials and performing all work required for constructing and finishing complete at U. S. VETERANS' HOSPITAL, SALT LAKE CITY, UTAH, ONE MAIN BUILDING NO. 1 and ONE GARAGE AND ATTENDANTS' QUARTERS NO. 2, including roads, walks, grading and drainage. This work will include earth work, reinforced concrete, brick work, hollow building tile, cast stone, slate for stairways, marble floor and wall tile, compressed asphalt tile, terrazzo, linoleum floors, waterproofing and dampproofing, miscellaneous structural metal work, ornamental metal work, fire resisting doors, steel window equipment, steel shelving, cabinets, etc., roofing, sheet metal, lightning conductors, lathing and plastering, carpentry, insect screens, X-ray Laboratory and equipment, window shades, painting, glazing, hardware, roads, walks, grading and drainage, plumbing, plumbing equipment, outside water distribution, outside sewers,

gas piping, sterilizing and kitchen equipment, heating, heating equipment, including condensate pump and receiver, outside steam distribution, ventilating, boilers and boiler plant equipment, electrical work (including connections to outside electrical distribution system), extension to fire alarm system, nurses' call system and electric passenger elevator (including elevator enclosure doors), frames and trim, zeolite water softening plant, refrigerating plant and radial brick chimney. SEPARATE BIDS will be received for (a) General Construction (including plumbing, heating, electrical work and outside distribution systems); (b) electric elevators; (c) Zeolite Water Softening System; (d) Refrigerating and Ice Making Plant; (e) Radial Brick Chimney; all as set forth in bid form. Bids will be received only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and in making awards, the record of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764, Arlington Building, Washington, D. C., or the Supervising Superintendent of Construction, U. S. Veterans' Bureau, Palo Alto, California. While no deposit will be necessary, return of drawings and specifications within ten days after date of opening bids will be required. Failure to comply with this requirement will be considered in connection with future applications for drawings and specifications. GEORGE E. IJAMS, Director. March 26, 1931.

Bids close April 28, 1931.

Louisiana Highway Work

Baton Rouge, La.

Sealed Proposals for the construction of the following projects will be received by the Louisiana Highway Commission, Room No. 614, Louisiana National Bank Building, Baton Rouge, Louisiana, until 9:45 A. M. on Tuesday, April 28, 1931. Proposals will not be received after this hour. At 10 o'clock A. M. of the same day and date they will be publicly opened and read in the Chamber of the House of Representatives in the State Capitol Building.

(BOND) PROJECT NO. 1003—CHURCH POINT-NORTH AND SOUTH HIGHWAY—Located in Acadia Parish, Routes 40 and 212. Length 4.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$1.50.

(BOND) PROJECT NO. 1503—ENNES-INTERSECTION ROUTE 7 HIGHWAY. Located in Beauregard Parish, Route 42. Length 14.2 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.50.

(BOND) PROJECT NO. 1906—DEQUINCY-EAST AND WEST HIGHWAY. Located in Calcasieu Parish, Route 7. Length 7.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 2302—HOMER-EAST ON ROUTES 11 AND 115 HIGHWAY. Located in Claiborne Parish, Routes 11 and 115. Length 7.5 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 2505—BENSON-CONVERSE HIGHWAY. Located in DeSoto and Sabine Parishes, Route 42. Length 7.7 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 3502—JENNINGS-LAKE ARTHUR HIGHWAY. Located in Jefferson Davis Parish, Route 25. Length 13.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.50.

(BOND) PROJECT NO. 4002—RUSTON-BERNICE HIGHWAY. Located in Lincoln

and Union Parishes, Route 5. Length 18.3 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$3.00.

(BOND) PROJECT NO. 4203—ENOKA-TALLULAH HIGHWAY. Located in Madison Parish, Route 3. Length 8.6 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 4301—BASTROP-MER ROUGE HIGHWAY. Located in Morehouse Parish, Route 11. Length 9.9 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 4803—OSCAR-ERWINVILLE HIGHWAY. Located in Pointe Coupee and West Baton Rouge Parishes, Routes 30 and 93. Length 8.1 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 4904—NEW ROADS-MORGANZA HIGHWAY. Located in Pointe Coupee Parish, Route 30. Length 10.7 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.50.

(BOND) PROJECT NO. 4909—ALEXANDRIA-SOUTH ON ROUTES 5 AND 205 HIGHWAY. Located in Rapides Parish, Routes 5 and 205. Length 7.2 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 4912—RAPIDES-ALEXANDRIA HIGHWAY. Located in Rapides Parish, Route 20. Length 10.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 5306—VILLE PLATTE-OPELOUSAS HIGHWAY. Located in Evangeline and St. Landry Parishes, Route 22. Length 12.7 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.50.

(BOND) PROJECT NO. 5807—EUNICE-BASILE HIGHWAY. Located in St. Landry and Evangeline Parishes, Route 7. Length 12.7 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.50.

(BOND) PROJECT NO. 6108—COVINGTON-EAST AND WEST HIGHWAY. Located in St. Tammany Parish, Route 7. Length 6.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 6404—THIBODAUX-HOUMA HIGHWAY. Located in Lafourche and Terrebonne Parishes, Route 69. Length 16.9 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$3.00.

(BOND) PROJECT NO. 6801—BOGALUSA-SUN HIGHWAY. Located in Washington and St. Tammany Parishes, Route 7. Length 8.1 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$2.00.

(BOND) PROJECT NO. 7101—DARNELL-DELHI HIGHWAY. Located in West Carroll and Richland Parishes, Route 16. Length 17.4 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$3.00.

(BOND) PROJECT NO. 7200—ROUTE 3 THROUGH ST. FRANCISVILLE HIGHWAY. Located in W. Feliciana Parish, Route 3. Length 4.0 miles. Width 18 ft. Type Portland Cement Concrete Pavement and other work in connection therewith. Charges for plans, \$1.50.

Full information and proposal forms are available at the offices of the Highway Commission at Baton Rouge. Plans and specifications may be inspected there or will be furnished upon payment of the amounts specified above (not to be refunded).

HARRY B. HENDERLITE,
State Highway Engineer.

O. K. ALLEN, Chairman,
Louisiana Highway Commission.

Bids close May 5, 1931.

TREASURY DEPARTMENT, Bureau of Engraving and Printing, Washington, D. C., March 26, 1931.—Sealed proposals are invited for the sale of ink scrapings, and postage stamp and internal revenue paper trimmings, and for the cleaning of windows during the fiscal year beginning July 1, 1931. Proposals to be received not later than 2 p. m., Tuesday, May 5, 1931. Blank forms with specifications for proposals for the several schedules and further information will be furnished on application to A. W. HALL, Director.

Bids close April 23, 1931.

TREASURY DEPARTMENT, office of the supervising architect, Washington, D. C., March 26, 1931.—**SEALED BIDS**, in duplicate, subject to the conditions contained herein, will be publicly opened in this office at 3 p. m., April 23, 1931, for furnishing all labor and materials and performing all work for remodeling and enlarging the U. S. post office at Decatur, Ala. The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding one set, may be obtained at this office, in the discretion of the supervising architect, by any satisfactory general contractor. **JAS. A. WETMORE**, Acting Supervising Architect.

Bids close April 28, 1931.

Bridges

Baton Rouge, La.
Sealed Proposals for the construction of the following projects will be received by the Louisiana Highway Commission, Room No. 614, Louisiana National Bank Building, Baton Rouge, Louisiana, until 9.45 A. M. on Tuesday, April 28, 1931. Proposals will not be received after this hour. At 10 o'clock A. M. of the same day and date they will be publicly opened and read in the Chamber of the Senate in the State Capitol Building.

(BOND) PROJECT NO. 6500—OUACHITA

RIVER BRIDGE AT STERLINGTON ON THE FARMERVILLE-BASTROP HIGHWAY—Located in Union and Ouachita Parishes, Route No. 11. Description: 1—200 ft. fixed span, 3—100 ft. low truss spans, 1—320 ft. swing span on concrete piers resting on untreated timber piles, 3—30 ft. reinforced concrete deck girder spans on concrete piles. Roadway width, 20 ft. Approximately 1.0 mile of earth approaches, including gravel surfacing. Charges for plans, \$3.50.

(BOND) PROJECT NO. 6600—**MERMEN-TAU RIVER BRIDGE AT LAKE ARTHUR ON THE LAKE ARTHUR-ABBEVILLE HIGHWAY**—Located in Jefferson Davis and Vermilion Parishes, Route No. 25. Description: 1—250 ft. fixed span, 2—200 ft. fixed spans on concrete piers resting on untreated timber piles, 20—20 ft. combination I-beam trestle spans on timber piles. Roadway width, 20 ft. Approximately 0.5 mile of earth approaches, including gravel surfacing. Charges for plans, \$3.50.

Full information and proposal forms are available at the offices of the Highway Commission at Baton Rouge. Plans and specifications may be inspected there or will be furnished upon payment of the amounts specified above (not to be refunded).

HARRY B. HENDERLITE,
State Highway Engineer.
O. K. ALLEN, Chairman,
Louisiana Highway Commission.

Bids close April 14, 1931.

Maryland Highway Work

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building five sections of State Highway as follows:
Charles County, Contract No. Ch-100-82—

One section of State Highway along the Bel Alton-Chapel Point Road, from the end of Contract No. Ch-83 twd. Chapel Point, a distance of 1.23 miles (Gravel).

Dorchester County, Contract No. D-68-17—One section of State Highway along the approaches to the Vienna Bridge, a distance of 0.66 miles (Concrete).

Harford County, Contract No. H-111-44—One section of State Highway from Whiteford to Gracetown, a distance of 2.24 miles (Concrete).

Washington County, Contract No. W-87-62—One section of State Highway along the Greencastle Pike from the end of Contract No. W-72, near Huyett to Cearfoss, a distance of 1.96 miles (Macadam Resurfacing).

Worcester County, Contract No. Wo-93-12—One section of State Highway along the Stockton to Virginia Line Road, from end of Contract No. Wo-70, near Stockton to the Virginia State Line, a distance of 1.94 miles (Concrete).

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 14th day of April, 1931, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 31st day of March, 1931.

G. CLINTON UHL, Chairman.

L. H. STEUART, Secretary.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE OR TRADE

500 Acres in fee of valuable Fire Clay, Coal and Timber Lands, located in Carter County, Ky., on C. & O. Railway.
BOX 623, ASHLAND, KENTUCKY.

TIMBER AND TIMBER LANDS

FOR SALE—20,000 acres timber lands on railroad near Myrtle Beach, S. C., the famous year-round seaside resort, and the Inland Waterway now under construction.
Jno. L. Williams, Box 1612, Greenville, S. C.

FARM, FRUIT AND TRUCK LANDS

TEXAS

LOWER RIO GRANDE Valley orchards and acreage at actual value. Owner's price direct to you. Send for list. **ROBERTS REALTY CO.**, Realtors, McAllen, Tex.

MEXICAN INVESTMENTS

MEXICO. Reports made on investments and prospective investments for Banks, Industrial Plants, Mines and Utilities. **W. R. Pender Eng. Service Corp.**, Post Dispatch Bldg., Houston, Texas.

SOUTHERN ESTATE

ESTATE FOR SALE—11 acres on St. Johns River opposite Jacksonville, also 12-room residence in good location, only few blocks from business center of Jacksonville.
A. G. Chappell, P. O. Box 392, Jacksonville, Fla.

BUSINESS OPPORTUNITIES

MANUFACTURERS—Write for our **FREE** Classification Sheets of inventions for sale, covering 135 main subjects, and in one or more of which you will doubtless be interested. **ADAM FISHER MFG. CO.**, 578 Enright, St. Louis, Mo.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to line. When the advertisement contains a number of long words proper allowance should be made.

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On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

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LONG TERM LOANS, large amounts, made on industrial, mercantile, sawmill properties. **THOS. W. GILMER**, Attorney, Bay Minette, Alabama.

MANUFACTURERS—"Tell 'em once and sell 'em often with a slogan." An apt slogan in the advertising of your products overcomes sales resistance, through its never failing influence on the buying public, and is that irresistible force which makes your advertisement read, re-read and remembered. **FRANK P. JORDAN, SLOGANEER**, 945 Birch St., Scranton, Pa.

BUSINESS OPPORTUNITIES

PARKERSBURG.

Successful manufacturers are invited to join this city's colony of prosperous, medium sized, diversified industrial plants.

BOARD OF COMMERCE,
Parkersburg, West Virginia.

FOR SALE—Near Cheraw, S. C., forty acres mineral rights. New and beautiful granite. Pink, blue and white. Practically undeveloped. Used in one Bank Building in Cheraw, S. C. Fine quality granite for monumental work, building stone, street curbing or paving blocks. Samples on request.

LAWSON McCOMBS,
Route No. 3,
Salisbury, N. Car.

LOCATION WANTED for manufacturing loose leaf pasteless slip-in kodak album sheets to be sold through ten cent stores. Repeat article 100% manufacturing profit should net \$100.00 daily, giving employment to about 10 people. Management will be given entirely into hands of parties who acquire half interest in U. S. and Canadian patents thereon for \$2,000.00. Write **P. O. Box 1079, Charleston, Kanawha Co., W. Va.**

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development and zoning made by specialists in locating industries.

TECHNICAL SERVICE CO.
Woolworth Building New York City

INDUSTRIES WANTED

WELL-LOCATED Southern town wants industry. Will furnish plant, moving expenses, additional capital and other concessions.

INDUSTRIAL SERVICE CORP.,
Asheville, N. C.

INDUSTRIAL PLANTS

COTTON MILL—Will sacrifice. In heart of cotton belt—Mississippi. Sheeting, osnaburg and rope. Labor cheap and plentiful. Diesel oil engine. In operation. Price \$60,000. Will appraise \$300,000. 8500 spindles. W. D. Dobbins, 504 N. 21st St., Bham, Ala.

DEPENDABLE VALUE in Grain Mill. Large returns on small investment. Live demand for products. Cost \$75,000. Can be bought for half. Particulars furnished. W. T. Bailey, Suffolk, Va.

FACTORY SITES

TWO AND ONE-QUARTER MILES railroad frontage industrial sites for sale at Baton Rouge. Southern Land and Investment Company, Baton Rouge, La.

FACTORY SITE

Adjoining town. Along with good water power electric plant. Also fuel oil auxiliary for emergency use. On railroad siding. Will lease or sell. Price reasonable. Address No. 9097, care Manufacturers Record.

MANUFACTURING AND STORAGE SITES
Large body of land located in the City of Charlotte, North Carolina. One mile from center of city. Population ninety thousand. Land located in heart of Textile District. Available skilled labor. Accessible to Railroads, Street Railways, Hydro-Electric Power. Fronting Hard-surface Street; Water and Sewerage. Approximately two hundred acres. Ideal location for manufacturing and storing enterprises. Will sell upward to meet requirements.

PEGRAM-WADSWORTH LAND CO.

(Owners),
Office, 219 N. College St.,
Charlotte, N. Car.

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SEYMOUR & BRIGHT, Registered Patent Attorneys. Established 1876. **PATENTS, TRADEMARKS, COPYRIGHTS**. Prompt and thorough service. Suite 892, National Press Building, Washington, D. C.

REPRESENTATIVES WANTED

VERY DESIRABLE territory now available to high-grade, financially responsible individual or organization experienced in selling to municipalities and public utilities. Address No. 9100, care Manufacturers Record.

WE MAKE Water Conditioning Chemicals and desire to communicate with men now active, calling on the power trade or handling boiler room specialties. Work is highly remunerative. Address No. 9080, care of Manufacturers Record, Baltimore.

AGENCIES WANTED

ARE YOU LOOKING FOR
REPRESENTATIVE IN ATLANTA
OR BIRMINGHAM DISTRICTS?

Division or local Manager and Representation solicited—fully qualified—20 years experience with Machinery and Mill Supplies. Enjoy wide and influential acquaintances throughout Atlanta and Birmingham districts. Detailed information regarding experience will be gladly furnished. Address No. 9101, care of Manufacturers Record.

SITUATIONS WANTED

WANTED a job by man forty-five years old, healthy, with unlimited experience in lumber industry, as well as other lines, many years of executive experience. Want connection with well established concern, where experience is necessary for advancement, can represent concerns in the South when requirements are not technical. Address No. 9099, care Manufacturers Record.

MEN WANTED

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements, your identity covered and present position protected. Established twenty-one years. Send only name and address for details.

R. W. BIXBY, INC.,
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FOR SALE—1 No. 6 Black & Decker Electric Hammer, with set of 10 drills. Slightly used but in excellent condition. \$125.00. **HARRISON HDW. & FURN. COMPANY,**
St. Petersburg, Fla.

FOR SALE—40 H.P. Superior oil engine and Fairbanks Multistage centrifugal pump complete with conversion to gas fuel, \$1350. Three 55 H.P. Primm oil engines and high pressure pumps, plunger pattern, all fine order. Also 100 oil and gas engines, pumps and compressors. **EDWARD A. SCHAMBS, JR.,** Box No. 868, Wichita Falls, Texas.

ELECTRIC MOTORS—Only a few left: New 10 H. P. 220 volt 60 cycle 3 phase, 1750 speed General Electric alternating current motors, ball bearing, double shaft extension, in original crates, each \$55.00. Also 20 H. P. 3450 Speed \$75.00. Subject to prior sales F.O.B. Chicago, sight draft attached.

ELECTRICAL SURPLUS CO.,
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WOODWORKING PLANT**

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Master's & Receiver's Sale



U. S. District Court, Eastern District of Penna. Dec. Term, 1925, No. 3527. In Equity. In the matter of American Exchange. Irving Trust Co., Trustee, vs. Eastern Steel Co., and Dec. Term, 1925, No. 3541. In the matter of W. J. Reiney, Inc., vs. Eastern Steel Co.

The Real Estate Machinery, Equipment and Material of the **EASTERN STEEL CO.** Pottsville, Pa.

to be sold at auction

Mon., Tues. & Wed., April 20, 21 & 22, 1931
at 10 A. M. Each Day on the Premises

NOTE: The Real Estate, Machinery and Equipment will be offered by order of the Master first as an entirety and then in piecemeal lots.

Real Estate

Tract of land, approximately 52 acres, improved with brick office building, electric shop and oil house, frame time office, hospital, several large structural steel buildings housing rolling mills, machine shop, boiler house, etc. Also two Reservoir tracts and several large vacant tracts adjacent to plant. Nine frame dwellings. Also property situated in Eastern part of Island of Cuba, area about 3850 hectares.

Machinery and Equipment

26 electric, overhead, gantry, traveling and ladle cranes, 10 to 25 tons, 42 to 90 feet span; 17 electric hoists 2 to 10 tons; 20 chain hoists 1 to 6 tons; 6 open hearth and 4 reheating furnaces; 10-55 and 85-ton ladles; 139 4-wheel standard gauge cars; 8-4 to 6-in. angle and alligator shears; 2 coal and manganese crushers; 6 rolling mills; 4 cold and hot saws; 2 condensing and reversing steam engines; 16 350 H.P. water tube boilers; 14 steam supply, hydraulic and centrifugal pumps; 5 roll turning lathes; 6-30 to 60-ton four-and-six-wheel standard gauge locomotives; 3-5 to 30-ton locomotive cranes; 29 dump, flat, hopper bottom, and gondola cars; 3 clam shell buckets, 4 track scales, 2 mixed flow turbines; 9 machine lathes, planers, boring mills, gear cutters, shapers, millers, radial drills, bolt cutters, pipe threaders, air compressors, generators, generator sets, motors, 5 miles standard gauge track, etc.

Stock, Supplies and Office Furniture

Approximately 5000 tons of H and I beams; approximately 2500 tons of billets; approximately 5000 tons scrap; factory supplies and equipment, electrical supplies, small tools, bushings, bearings, valves, bolts, nuts, office furniture, typewriters, adding machines, calculators, and other office equipment, etc.

Note: The Stock and Office Furniture will be sold by order of the Receiver in piecemeal lots only.

By Order of

ROLAND S. MORRIS, Master; EDWARD L. HERNDON, Receiver
PEPPER, BODINE STOKES & SCHOCH, Esqs., Philadelphia, Pa.,
Attorneys for Receivers.

Descriptive Illustrated Catalogs upon Application to

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All transformers guaranteed for one year.
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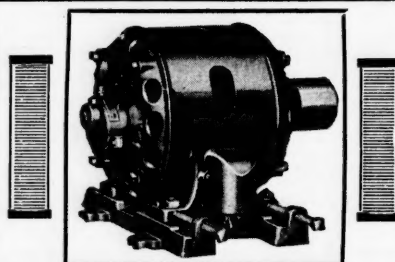
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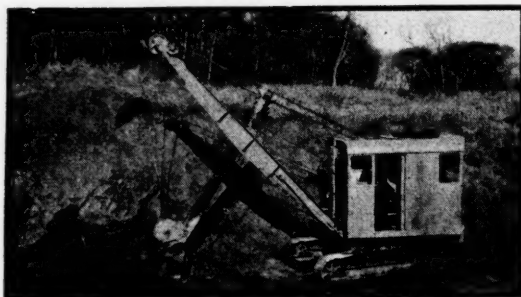
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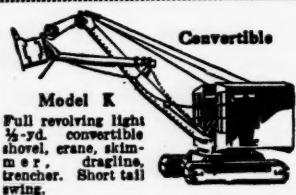
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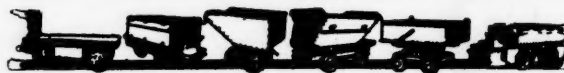


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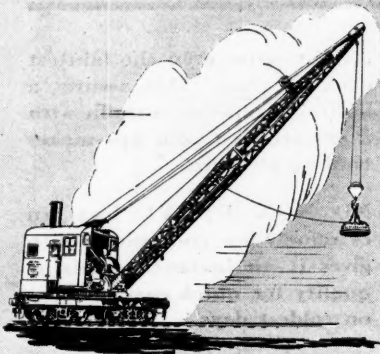
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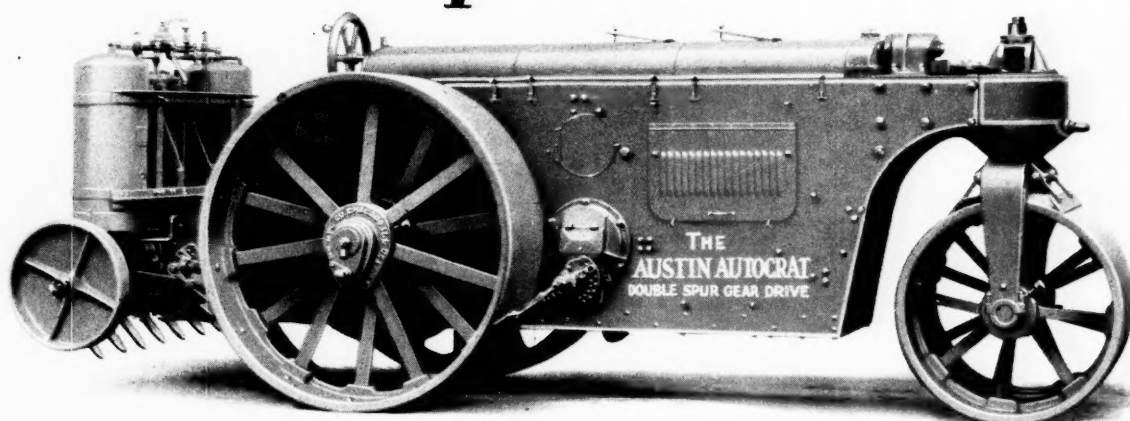
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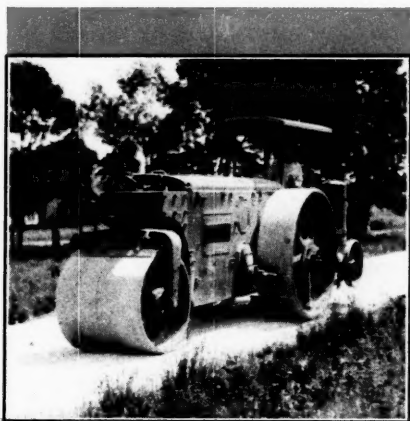
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Double Spur Gear Drive Autocrat with powerful pneumatic scarifier

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Autocrat with cab to protect operator



Autocrat with pneumatic scarifier at work on road

THE new Austin Double Spur Gear Drive Autocrat Roller has established the Autocrat name more firmly than ever at the head of the list of fine performing rollers.

No expense has been spared to make it the *finest roller in the world!*

The startling improvements and refinements found in the new Autocrat are but natural results of the *highest standard of material and workmanship* ever put into a roller. A higher *factor of safety* has also been obtained. The normal life of the new Autocrat is years beyond that of ordinary rollers.

Outstanding features

The new Austin Autocrat is now equipped with a double spur gear drive of *exceptional efficiency*. A differential gear is regular equipment on all models.

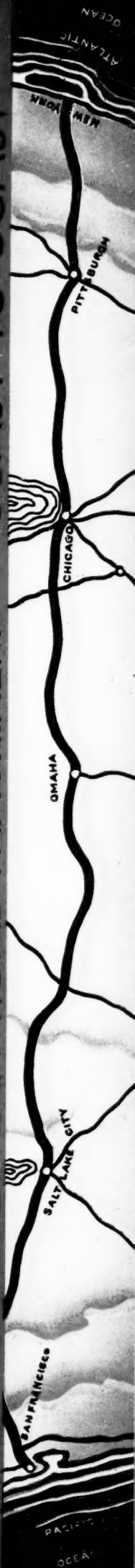
The heavy duty motor develops abundant power for rolling and the *toughest* scarifying jobs. An unusually short wheel-base increases maneuverability in close quarters. Amazingly easy to steer and handle! Low center of gravity *insures* smooth work and *prevents* side sway. Two speeds forward and reverse! Shifts from forward to reverse *without changing gears* or releasing master clutch!

Send for booklet

The Autocrat is made in 10- and 12-ton sizes. Write for descriptive literature for your files. The Austin-Western Road Machinery Co., 400 N. Michigan Ave., Chicago.

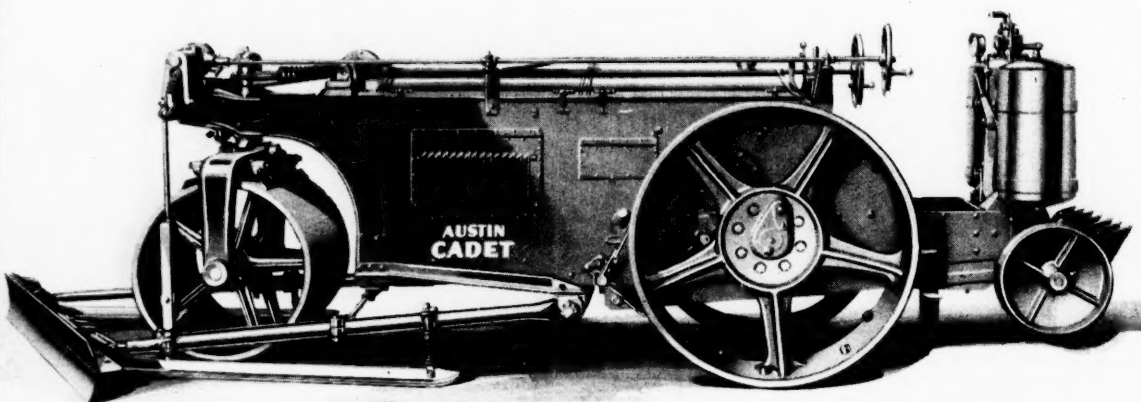
Austin-Western ROAD MACHINERY

AUSTIN-WESTERN ROAD MACHINERY COAST TO COAST



AUSTIN-WESTERN ROAD MACHINERY COAST TO COAST

A completely factory-built roller



Austin 5-ton Cadet Roller with blade and pneumatic scarifier

... the AUTOCRAT of small-size rollers

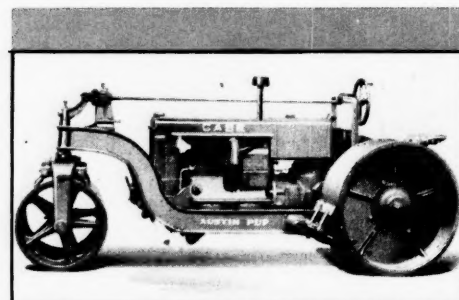
The Austin Cadet brings to the small, or pup roller field convenient operating features heretofore available only in the finest of the large rollers . . .

The special Cadet transmission has three travelling speeds forward and reverse—an impossibility when standard tractors are used for powering pup-sized rollers. The 4-cylinder, heavy duty motor can be cranked from either side, and provides more than enough power for rolling, leveling rough roads or subgrades, and scarifying hard surfaces.

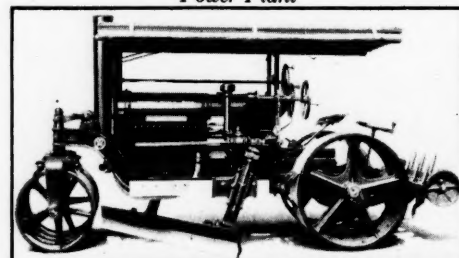
The Austin Cadet's wheel base is short enough to operate between the forms of concrete roads and other similar "tight spots." It is made in 5-, 6- and 7-ton sizes.

Streamline design gives the operator an unobstructed view of his work at all times. All sizes can be fitted with the famous Austin front planing blade as well as with a powerful pneumatic scarifier attachment.

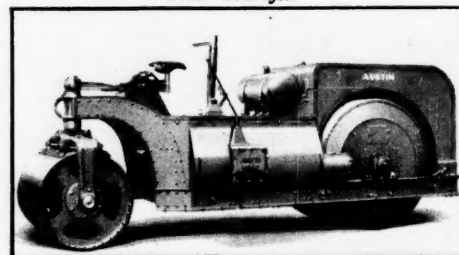
Other types of Austin rollers are illustrated at the right.



An Austin Pup Roller with a Case Model "CI" Power Plant



Austin Bull Pup Roller with Center Blade and Rear Scarifier



Austin 7-ton, 4-cylinder Tandem Roller

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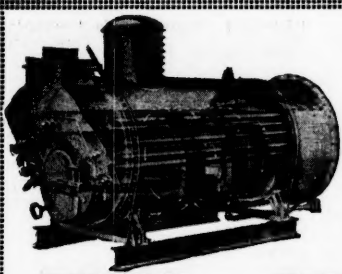
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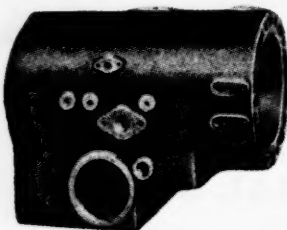
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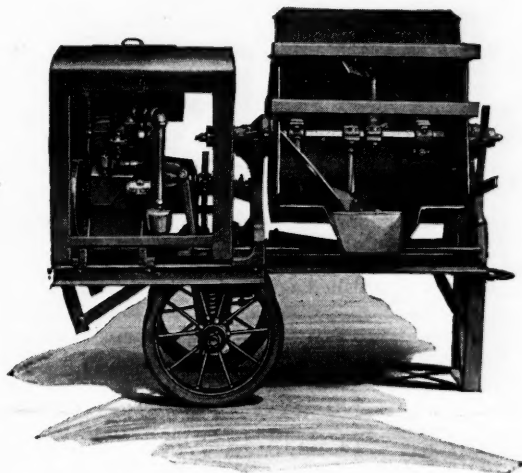
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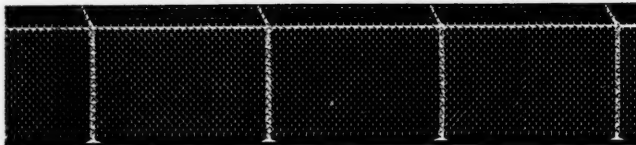
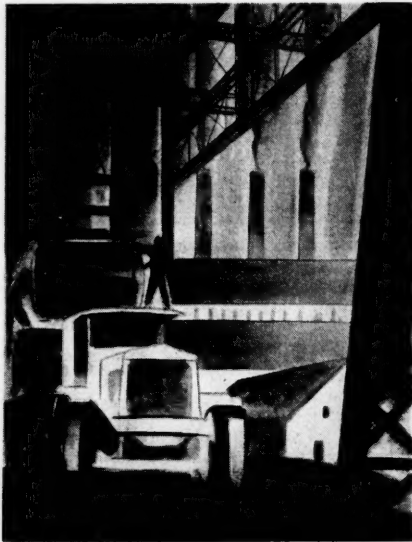
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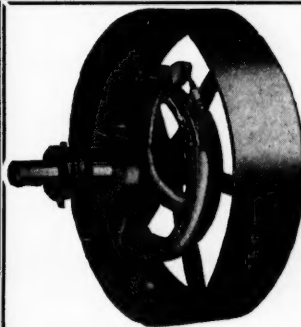
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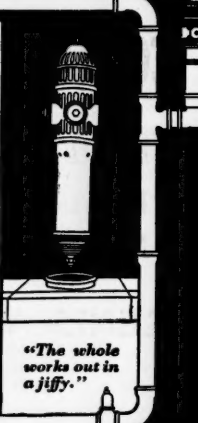
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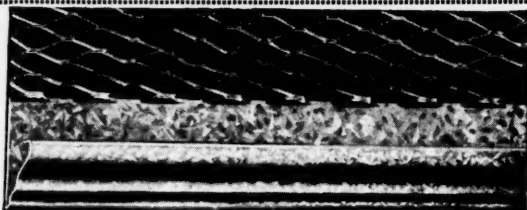


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Cast Iron Pipe Research Assn., Chicago.
Glamorgan Pipe & Fdry. Co., Lynchburg, Va.

National Cast Iron Pipe Co., Birmingham, Ala.

U. S. Pipe & Fdry. Co., Burlington, N. J.

—(Dredge.)

Lancaster Iron Works, Inc., Lancaster, Pa.

—(Hammer-Welded.)

National Tube Co., Pittsburgh, Pa.

—(Iron and Steel.)

American Rolling Mill Co., Middletown.
Byrson & Son, Inc., Jos. T., St. Louis and New York.

—(Second-Hand.)

Albert & Davidson Pipe Corp., Brooklyn, N. Y.
Albert Pipe Sup. Co., Inc., Brooklyn, N. Y.
Central Pipe & Sup. Co., Charleston, W. Va.

Greenpoint Iron & Pipe Co., Inc., Brooklyn, N. Y.
Greenspon's Sons Iron & Steel Co., St. Louis, Mo.
Hudson Pipe & Supply Co., Bayonne, N. J.
Marine Metal & Supply Co., New York.
Maryland Pipe & Steel Corp., Baltimore, Md.

—(Spiral Riveted.)

Taylor Forge & Pipe Wks., Chicago, Ill.

—(Spiral Welded.)

American Rolling Mill Co., Middletown.

—(Steel.)

Bethlehem Steel Co., Bethlehem, Pa.
Chicago Bridge & Iron Wks., Atlanta, Ga.
National Tube Co., Pittsburgh, Pa.
Pittsburgh Piping & Equip. Co., Pittsburgh, Pa.
Power Piping Co., Pittsburgh, Pa.
Youngstown Sheet & Tube Co., Youngstown, Ohio.

—(Steel, Large Diameter.)

Alco Products, Inc., New York, N. Y.

—(Welded.)

Welded Products Co. of La., Inc., New Orleans, La.

—(Wrought Iron.)

Reading Iron Co., Reading, Pa.

—Benders and Headers.

Grinnell Co., Inc., Providence, R. I.

—Bending Machines.

American Pipe Bending Machine Co., Boston, Mass.

—Coatings.

Foster Co., Benjamin, Philadelphia, Pa.

—Covering (Cork.)

United Cork Companies, Lyndhurst, N. J.

—Fittings.

Amer. Cast Iron Pipe Co., Birmingham.
Georgia Iron Works, Augusta, Ga.

Grinnell Co., Inc., Providence, R. I.

—Machinery (Concrete.)

Quinn Wire & Iron Works, Boone, Iowa.

—Unions and Joints.

Dart Mfg. Co., E. M., Providence, R. I.

—Systems (Industrial.)

Grinnell Co., Inc., Providence, R. I.

Pittsburgh Piping & Equip. Co., Pittsburgh, Pa.

Power Piping Co., Pittsburgh, Pa.

Southern Automatic Sprinkler Company, Birmingham.

PITCH

Harrett Co., The, New York, N. Y.

PLATES (Steel.)

American Rolling Mill Co., Middletown.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Chattanooga Boiler & Tank Co., Chattanooga, Tenn.
Granite City Steel Co., Granite City, Ill.
Gulf States Steel Co., Birmingham, Ala.
Ryerson & Son, Inc., Jos. T., St. Louis and New York.
Tennessee Coal, Iron & Railroad Co., Birmingham.

PNEUMATIC TOOLS.

Ingersoll-Rand Co., New York, N. Y.

POLES (Crescoted.)

Amer. Crescote Wks., Inc., New Orleans.
Amer. Crescoting Co., Inc., Louisville, Ky.
Ayer & Lord Tie Co., Inc., Chicago.
Brown Wood Preserving Co., Louisville, Ky.
Savannah Crescoting Co., Savannah, Ga.

—(Tubular, Steel.)

National Tube Co., Pittsburgh, Pa.

—(Yellow Pine.)

Jackson Lumber Co., Lookhart, Ala.

—(Zinc Meta Arsenite Treated.)

Curtin-Howe Corp., New York City.

POLISHING MACHINERY.

(Wheels, Blocks.)
Carborundum Co., Niagara Falls, N. Y.

POSTS, (Cast Iron, Railway and Highway.)

U. S. Pipe & Foundry Co., Burlington, N. J.

POWER TRANSMISSION MACHINERY.

Diamond Chain & Mfg. Co., Indianapolis.
Goldens' Fdry. & Mch. Co., Columbus, Ga.
O'Brien Machinery Co., Phila., Pa.
Schaffeld's Sons Co., J. E., Macon, Ga.
Wood's Sons Co., T. B., Chambersburg, Pa.

PREHEATERS (Air.)

Combustion Engr. Corp., New York City.

PRESSES, (Baling, Cottonseed Oil, Hydraulic and Power.)

Dunning & Boschert Press Co., Inc., Syracuse, N. Y.
Ripley Foundry & Machine Co., Ripley, O.
Tomlin-Harris Machine Co., Cordoba, Ga.

—(Metal Stamping.)

Bliss Co., E. W., Brooklyn, N. Y.

PRINTERS (Book, Catalog, Job.)
Smith & Son Co., Oscar T., Baltimore, Md.
Young & Selden Co., Baltimore, Md.

PRODUCER (Gas Machines.)
Gas-O-Flame Stove Wks., Port Deposit, Md.
Wood & Co., E. D., Phila., Pa.

PULLEYS (Friction Clutch.)
Caldwell Co., Inc., W. E., Louisville, Ky.
Wood's Sons Co., T. B., Chambersburg, Pa.

—Shafting and Hangers.
Goldens' Fdy. & Mch. Co., Columbus, Ga.
Wood's Sons Co., T. B., Chambersburg, Pa.

PULVERIZED COAL EQUIPMENT.
Combustion Engr. Corp., New York, N. Y.
Fuller Lehigh Co., Fullerton, Pa.

PULVERIZERS (See Crushing and Pulverizing Machinery.)

PUMPING MACHINERY.
American Well Works, Aurora, Ill.
Cameron, A. S., Steam Pump Works (Ingersoll-Rand Co.), New York City.
Chain Belt Co., Milwaukee, Wis.
Cook, Inc., A. D., Lawrenceburg, Ind.
Fairbanks, Morse & Co., Chicago, Ill.
Ingersoll-Rand Co. (A. S. Cameron Steam Pump Works), New York, N. Y.
International Derrick & Equipment Co., Columbus, Ohio.
Myers & Bro. Co., The F. E. Ashland, O.
National Equipment Corp., (C. E. & E. Division), Milwaukee, Wis.
Petersburg Mchry. Pump & Well Co., Petersburg, Va.
Virginia Mchry. & Well Co., Richmond, Va.

PUMPS (Air.)
Manistee Iron Works Co., Manistee, Mich.

—(Air Lift.)
Ingersoll-Rand Co., New York, N. Y.

—(Boiler Feed.)
Cameron, A. S., Steam Pump Works (Ingersoll-Rand Co.), New York City.
DeLaval Steam Turbine Co., Trenton, N. J.
Erie Pump & Engine Wks., Medina, N. Y.
Ingersoll-Rand Co. (A. S. Cameron Steam Pump Works), New York, N. Y.
Manistee Iron Works Co., Manistee, Mich.
Myers & Bro. Co., The F. E. Ashland, O.

—(Centrifugal.)
Allis-Chalmers Mfg. Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Cameron, A. S., Steam Pump Works (Ingersoll-Rand Co.), New York City.
DeLaval Steam Turbine Co., Trenton, N. J.
Erie Pump & Engine Wks., Medina, N. Y.
Fairbanks, Morse & Co., Chicago, Ill.
Ingersoll-Rand Co. (A. S. Cameron Steam Pump Works), New York, N. Y.
Jaeger Machine Co., Columbus, Ohio.
La Bour Co., Elkhart, Ind.
Layne & Bowler, Inc., Memphis, Tenn.
Manistee Iron Works Co., Manistee, Mich.
Nove Engine Co., Lansing, Mich.

—(Contractors.)
Erie Pump & Engine Wks., Medina, N. Y.
Nove Engine Co., Lansing, Mich.

—(Deep Well.)
American Well Works, Aurora, Ill.
Cook, Inc., A. D., Lawrenceburg, Ind.
Layne & Bowler, Inc., Memphis, Tenn.
Nove Engine Co., Lansing, Mich.

—(Diaphragm.)
Nove Engine Co., Lansing, Mich.

—(Hydraulic.)
Dunning & Boschert Press Co., Inc., Syracuse, N. Y.

—(Power.)
American Well Works, Aurora, Ill.
Sterling Engine Co., Buffalo, N. Y.

—(Pulverized Coal.)
Fuller Lehigh Co., Fullerton, Pa.

—(Sand and Dredging.)
Erie Pump & Engine Wks., Medina, N. Y.
Georgia Iron Works, Augusta, Ga.

—(Steam.)
Cameron, A. S., Steam Pump Works (Ingersoll-Rand Co.), New York City.
Fairbanks, Morse & Co., Chicago, Ill.
Ingersoll-Rand Co. (A. S. Cameron Steam Works), New York, N. Y.

—(Vacuum.)
Ingersoll-Rand Co., New York, N. Y.

—(Water Works.)
American Well Works, Aurora, Ill.
Layne & Bowler, Inc., Memphis, Tenn.
Manistee Iron Works Co., Manistee, Mich.

PUNCHING AND SHEARING MACHINERY.
Bliss Co., E. W., Brooklyn, N. Y.
Whitney Metal Tool Co., Rockford, Ill.

RACK RAKES.
Newport, News Shipbuilding & Drydock Co., Newport News, Va.

RADIATOR ENCLOSURES.
Manhattan Perforated Metal Co., Inc., Long Island City, N. Y.

RADIATORS (Gas Steam.)
Williams Radiator Co., Los Angeles, Calif.

RAILINGS (Iron Pipe.)
Pipe Railing Constr. Co., Long Island City, N. Y.

RAILROAD Equipment and Supplies (New.)
International Derrick & Equipment Co., Columbus, Ohio.
Robinson & Orr, Pittsburgh, Pa.

—Equipment and Supplies (Used.)
Levi & Co., Henry, Philadelphia, Pa.
Smith & Co., W. M., Birmingham, Ala.
Southern Iron and Equip. Co., Atlanta.
Zellicker Supply Co., W. A., St. Louis.

—(Frogs and Switches.)
Bethlehem Steel Co., Bethlehem, Pa.
Robinson & Orr, Pittsburgh, Pa.

RAILROADS — (Offering Industrial, Agricultural and Commercial Opportunities.)
Atlanta and West Point R. R., Atlanta.
Central of Georgia Rwy., Savannah, Ga.
Missouri-Kansas-Texas Lines, Dallas, Tex.
Model Land Company, Flagler System, St. Augustine, Fla.
Norfolk & Western Railway, Roanoke, Va.
Tennessee Central Railway, Nashville.

RAILS (New and Used.)
Carnegie Steel Co., Pittsburgh, Pa.
Levi & Co., Henry, Philadelphia, Pa.
Perry, Buxton, Doane Co., Philadelphia, Pa.
Robinson & Orr, Pittsburgh, Pa.
Smith & Co., W. M., Birmingham, Ala.
Southern Iron & Equip. Co., Atlanta, Ga.
Sweet's Steel Co., Williamsport, Pa.
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.
Zellicker Supply Co., W. A., St. Louis.

RAILWAYS (Industrial.)
Easton Car & Construction Co., Easton, Pa.
—(Marine.)
Charleston Dry Dock and Machine Co., Charleston, S. C.

RECEPTACLES (Self-Closing — Waste Paper.)
Whitaker Paper Co., Baltimore, Md.

REFRACORIES.
Harrison-Walker Refractories Co., Pittsburgh, Pa.

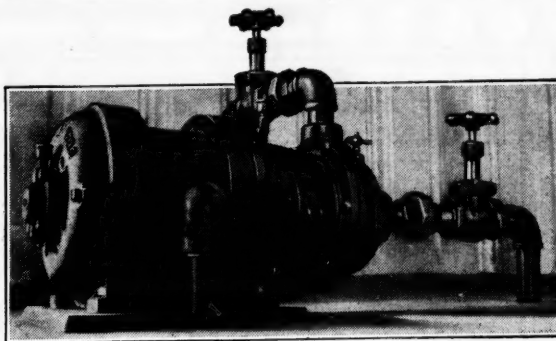
REFRIGERATING Machinery (See Ice and Refrigerating Machinery and Supplies.)

REINFORCING for Concrete.
American Steel and Wire Co., Balto., Md.
Carnegie Steel Co., Pittsburgh, Pa.
Connors Steel Co., Birmingham, Ala.
Dietrich Brothers, Baltimore, Md.
Gulf States Steel Co., Birmingham, Ala.
Knorrville Iron Co., Knoxville, Tenn.
Oliver Iron & Steel Corp., Pittsburgh, Pa.
Ryerson & Son, Inc., Jos. T., St. Louis, and New York.
Southern Engineering Co., Charlotte, N. C.
Truscon Steel Co., Youngstown, Ohio.

RIVER & HARBOR IMPROVEMENTS, (Dredging, Docks, Wharves, etc.)
Arundel Corp., The, Baltimore, Md.
Atlantic Gulf and Pacific Co., New York
Kansas City Bridge Co., Kansas City.

RIVETS.
Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y.

ROAD and Street Machinery.
Acme Road Mchry. Co., Frankfort, N. Y.
Adams Co., J. D., Indianapolis, Ind.
Austin-Western Road Machinery Co., Chicago
Blaw-Knox Co., Pittsburgh, Pa.
Buffalo-Springfield Roller Co., Springfield, O.
Caterpillar Tractor Co., Peoria, Ill.
Erie Machine Shops, Erie, Pa.
Harris Co., B. W. & Leo, Minneapolis, Minn.
Huber Mfg. Co., The, Marion, Ohio.
Universal Crane Co., Lorain, Ohio.



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—and Street Material.
Boxley & Co., W. W., Roanoke, Va.
Bloss-Sherfield Steel and Iron Co., Bir-
mingham, Ala.
Truscon Steel Co., Youngstown, Ohio.
Woodstock Slag Corp., Birmingham, Ala.

—Graders and Scrapers.
Caterpillar Tractor Co., Peoria, Ill.

—Oils and Preservatives.
Gulf Refining Co., Pittsburgh, Pa.

—Reinforcement (Welded
Fabric.)
American Steel & Wire Co., Balto., Md.

—Rollers (Steam and Gasoline.)
Buffalo-Springfield Roller Co., Spring-
field, O.
Erie Machine Shops, Erie, Pa.
Huber Mfg. Co., The, Marion, Ohio.

—Scarifiers.
Buffalo-Springfield Roller Co., Spring-
field, O.

ROOF INSULATION.
Armstrong Cork & Insulation Co., Lan-
caster, Pa.
United Cork Companies, Lyndhurst, N. J.

ROOFING (Asphalt Built-Up.)
Barber Asphalt Co., Philadelphia, Pa.

—(Ready Prepared, Felt, Tar,
Asbestos, Asphalt.)
Barrett Co., The, New York, N. Y.
Ruheroid Co., New York City.
Servicised Products Corp., Chicago, Ill.

—and Siding (Composition.)
Ruheroid Co., New York City.

—and Siding (Metal.)
American Rolling Mill Co., Middletown, O.
American Sheet and Tin Plate Co., Pitts-
burgh, Pa.
Gulf State Steel Co., Birmingham, Ala.
Milcor Steel Co., Milwaukee, Wis.
Ryerson & Son, Jos. T., St. Louis and
New York.
Truscon Steel Co., Youngstown, Ohio.
Youngstown Sheet and Tube Co., Youngs-
town, O.

—Tile, Cement (Interlocking
Flat, Channel Glass.)
Federal-American Cement Tile Co., Chicago.

—Tiles.
Federal-American Cement Tile Co., Chicago.

ROPE (Drives.)
Wood's Sons Co., T. E., Chambersburg, Pa.

RULES (Steel.)
Lufkin Rule Co., Saginaw, Mich.

SAFES.
York Safe & Lock Co., York, Penna.

SAND.
Arundel Corp., Baltimore, Md.
Friend & Co., Inc., Petersburg, Va.
Georgia Sand & Gravel Co., Augusta, Ga.

SANITARY Drinking Fountains.
Rundle-Spence Mfg. Co., Milwaukee, Wis.

SASH (Industrial.)
Truscon Steel Co., Youngstown, Ohio.

SAWMILL Machinery.
Schofield's Sons Co., J. S., Macon, Ga.

SAW RIGS.
National Equipment Corp., (C. H. & E.
Division), Milwaukee, Wis.

SAWS (Cold Metal.)
Earle Gear and Machine Co., Phila., Pa.
—(Electric Hand.)
Skilaw, Inc., Chicago, Ill.

SCAFFOLDING (Wooden.)
Patent Scaffolding Co., Chicago, Ill.

SCRAPERS (Drag and Wheel.)
Adams Co., J. D., Indianapolis, Ind.
Harris Co., B. W. & Leo, Minneapolis,
Minn.
Sauerman Bros., Chicago, Ill.

SCRAP IRON AND STEEL.
Hunts Sons, M. J., Philadelphia, Pa.
Perry, Buxton, Doane Co., Philadelphia.
Smith & Co., W. M., Birmingham, Ala.

SCREEN CLOTH.
Seneca Wire & Mfg. Co., Fostoria, Ohio.

SCREENING (For Concrete and
Road Construction.)
American Limestone Co., Knoxville, Tenn.

SCREENS (Sand, Gravel, Stone,
Coal, Ore, etc.)
Chicago Perforating Co., Chicago, Ill.
Diamond Iron Works, Minneapolis, Minn.
Erdle Perforating Co., Rochester, N. Y.
Hendrick Mfg. Co., Carbondale, Pa.
Mundt & Sons, Charles, Jersey City, N. J.
Universal Crusher Co., Cedar Rapids, Ia.

—(Sifting.)
Newark Wire Cloth Co., Newark, N. J.

SCREW-Machine Products.
Progressive Mfg. Co., Torrington, Conn.

SCREWS (Machine.)
Progressive Mfg. Co., Torrington, Conn.

SEAWALLS.
Shore-Line Builders, Inc., Jacksonville, Fla.

SEPARATORS (Dust.)
Raymond Bros., Impact Pulv. Co., Chicago.

SEWAGE Disposal Apparatus.
Pacific Flush-Tank Co., New York, N. Y.

SEWER Joint Compounds.
Pacific Flush-Tank Co., New York, N. Y.
Servicised Products Corp., Chicago, Ill.

—Pipe (Vitrified.)
Bannon Pipe Co., Louisville, Ky.
Lee Clay Products Co., Clearfield, Ky.
Owensboro Sewer Pipe Co., Owensboro, Ky.

—Pipe Machinery.
Quinn Wire & Iron Works, Boone, Iowa.

SHAFTING.
Ryerson & Sons, Inc., Jos. T., St. Louis
and New York.

—Material (Tubular.)
National Tube Co., Pittsburgh, Pa.

SHARPENING Stones.
Carborundum Co., Niagara Falls, N. Y.

SHEET Metal Working Ma-
chinery.
Bliss Co., E. W., Brooklyn, N. Y.
Whitney Metal Tool Co., Rockford, Ill.
Yoder Co., The, Cleveland, Ohio.

—Steel and Iron.
American Sheet and Tin Plate Co., Pitts-
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Bethlehem Steel Co., Bethlehem, Pa.
Granite City Steel Co., Granite City, Ill.
Gulf States Steel Co., Birmingham, Ala.
Ryerson & Son, Inc., Jos. T., St. Louis
and New York.
Superior Sheet Steel Co., Canton, Ohio.
Tennessee Coal, Iron & Railroad Co.,
Birmingham, Ala.
Youngstown Sheet & Tube Co., Youngs-
town, O.

SHEETS (Asbestos.)
Ruheroid Co., New York City.
—(Galvanized and Black.)
American Rolling Mill Co., Middletown.

SHINGLES (Asbestos.)
Ruheroid Co., New York City.
—(Stain.)
Cabot, Inc., Samuel, Boston, Mass.

SHOVELS (Steam, Gas and
Electric Power.)
Buckeye Traction Ditcher Co., Findlay,
Ohio.
Bucyrus-Erie Co., Erie, Penna.
Harnischfeger Corp., Milwaukee, Wis.
Industrial Brownhoist Corp., Cleveland O.
National Equipment Corp., (Koebling,
Insley), Milwaukee, Wis.
Northwest Engineering Co., Chicago, Ill.
Ohio Power Shovel Co., Lima, Ohio.
Thew Shovel Co., The, Lorain, Ohio.
Universal Power Shovel Co., Milwaukee,
Wis.

SHUTTERS (Steel.)
Merchant & Evans Co., Philadelphia, Pa.
—(Steel and Wood Bifolding.)
Kinnear Mfg. Co., The, Columbus, Ohio

SIEVES (Testing.)
Newark Wire Cloth Co., Newark, N. J.

SIGNALS (Danger.)
Toledo Pressed Steel Co., Toledo, Ohio.

SILICATE OF SODA.
Grasselli Chemical Co., Inc., Birmingham

SITES (Manufacturing.)
Alabama Power Co., Birmingham, Ala.
Atlanta and West Point R. R., Atlanta.
Brown & Co., Chattanooga, Tenn.
Central of Georgia Rwy., Savannah, Ga.

Fort Worth Chamber of Commerce, Fort Worth, Texas.
Galveston, City of, Galveston, Texas.
Georgia Power Co., Atlanta, Ga.
Missouri-Kansas-Texas Lines, Dallas, Tex.
Model Land Company, (Flagler System), St. Augustine, Fla.
New Orleans Ch. of Com., New Orleans, La.
Norfolk & Western Railway, Roanoke, Va.
Parkersburg, W. Va., Board of Commerce.
Reynolds Bros. Lbr. Co., Albany, Ga.
Tennessee Central Railway, Nashville.
Texas Power & Light Co., Dallas, Texas.

SKYLIGHTS.

Milcor Steel Co., Milwaukee, Wis.

SLABS (Concrete Floor.)

Federal-American Cement Tile Co., Chicago.

—(Concrete Roof.)

Federal-American Cement Tile Co., Chicago.

SLAG, For Concrete.

Sloss-Sheffield Steel and Iron Co., Birmingham, Ala.
Woodstock Slag Corp., Birmingham, Ala.

—(Furnace.)

Sloss-Sheffield Steel and Iron Co., Birmingham, Ala.
Woodstock Slag Corp., Birmingham, Ala.

SLINGS (Chain.)

Woodhouse Chain Works, Trenton, N. J.

—(Wire Rope.)

Roebbing's Sons Co., John A., Trenton, N.J.

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SNATCH BLOCKS (For Wire and Manila Rope.)

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SPEED REDUCERS.

Karle Gear & Mach. Co., Phila., Pa.

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Sweet's Steel Co., Williamsport, Pa.

SPRINGS (Machinery, Railway, Spiral Steel.)

American Steel & Wire Co., Balto., Md.

—(Wire—All Kinds.)

American Steel & Wire Co., Baltimore, Md.

SPRINKLERS (Automatic Fire.)

Grinnell Co., Inc., Providence, R. I.
Southern Automatic Sprinkler Co., Birmingham.

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STACKS (Iron and Steel.)

Biggs Boiler Works Co., Akron, Ohio
Birmingham Boiler and Engineering Co., Birmingham, Ala.
Chattanooga Boiler & Tank Co., Chattanooga, Tenn.
Chicago Bridge & Iron Wks., Atlanta, Ga.
Downingtown Iron Works, Downingtown, Pa.
Hammond Iron Works, Warren, Pa.
Hedges Walsh Weldner Co., Chattanooga, Tenn.
Ingalls Iron Works Co., Birmingham, Ala.
Lombard Iron Works & Supply Co., Augusta, Ga.
Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa.
Schodfeld's Sons Co., J. S., Macon, Ga.
U. S. Pipe & Foundry Co., Burlington, N.J.
Virginia Bridge & Iron Co., Roanoke, Va.

STAINS (Shingle, Woodwork.)

Cabot, Inc., Samuel, Boston, Mass.

STAIR Steps (Safety.)

Irving Iron Works Co., Long Is. City, N.Y.

—Treads.

Central Iron & Steel Co., Harrisburg, Pa.

STANDPIPES.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.
Chicago Bridge & Iron Works, Atlanta, Ga.
Hammond Iron Works, Warren, Pa.
Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa.

STATIONERS (Envelopes, Letter and Billheads, etc.)

Smith & Son Co., Oscar T., Baltimore, Md.
Young & Selden Co., Baltimore, Md.

STEAM SHOVELS.

Bucyrus-Erie Co., Erie, Pa.
Thew Shovel Co., The, Lorain, Ohio.

STEAM (Specialties.)

Lunkenheimer Co., The, Cincinnati, O.
Mueller Co., Decatur, Ill.

STEEL.

Bethlehem Steel Co., Bethlehem, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Dietrich Brothers, Baltimore, Md.
Gulf States Steel Co., Birmingham, Ala.
Oliver Iron & Steel Corp., Pittsburgh, Pa.
Byerson & Son, Inc., Jos. T., St. Louis and New York.
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.
Virginia Bridge & Iron Co., Roanoke, Va.

—(Alloy.)

Timken Roller Bearing Co., Canton, Ohio.

—(Cold Rolled.)

American Steel & Wire Co., Balto., Md.

—(Information Only.)

American Institute of Steel Construction, Inc., New York City.

—(Special Analysis.)

Timken Roller Bearing Co., Canton, Ohio.

—(Tool, High Speed.)

Bethlehem Steel Co., Bethlehem, Pa.

—Buildings (Designers and Builders.)

American Bridge Co., New York, N. Y.
Belmont Iron Works, Philadelphia, Pa.
Butler Mfg. Co., Kansas City, Mo.
Carolina Steel & Iron Co., Greensboro, N. C.
Champion Bridge Co., Wilmington, O.
Eichleay, Jr., Co., John, Pittsburgh, Pa.
Ingalls Iron Works Co., Birmingham, Ala.
International Derrick & Equipment Co., Columbus, Ohio.
McClintic-Marshall Co., Pittsburgh, Pa.
Phoenix Iron Co., The, Phila., Pa.
Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa.
Virginia Bridge & Iron Co., Roanoke, Va.

—Forms (Curb, Gutter, Sidewalk, Road.)

Blaw-Knox Co., Pittsburgh, Pa.

—Plate Construction (Riveted or Welded.)

Birmingham Boiler & Engr. Co., Birmingham, Ala.
Birmingham Tank Co., Birmingham.
Bristol Steel & Iron Works, Inc., Bristol, Va.
Carolina Steel & Iron Co., Greensboro, N. C.
Central Iron & Steel Co., Harrisburg, Pa.
Chattanooga Boiler & Tank Co., Chattanooga, Tenn.
Chicago Bridge & Iron Works, Atlanta, Ga.
Combustion Engr. Corp., New York City.
Hammond Iron Works, Warren, Pa.
Hedges Walsh Weldner Co., Chattanooga, Tenn.
Ingalls Iron Works Co., Birmingham, Ala.
Lancaster Iron Works, Inc., Lancaster, Pa.
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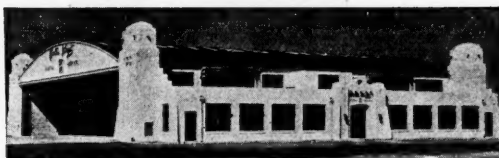
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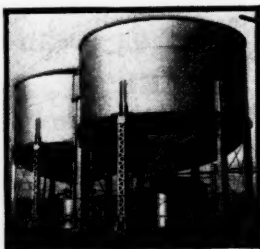
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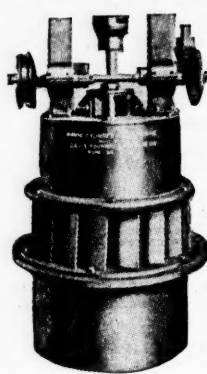
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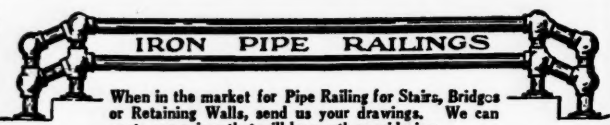


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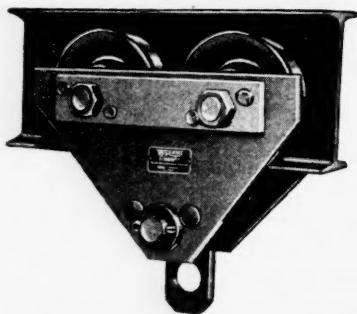
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WRIGHT

TIMKEN ROLLER BEARING TROLLEY



Ruggedness and flexibility are built into every Wright Trolley. Eight Timken Tapered Roller Bearings absorb not only the radial load but also all end thrust, making it possible to start a one-ton load with only eleven pounds push. There is a Wright Distributor nearby.

OTHER WRIGHT PRODUCTS

- Type "W" Electric Hoist
- Type "WH" Low Headroom Electric Hoist
- High Speed Chain Hoist
- Army Type Low Headroom Hoist

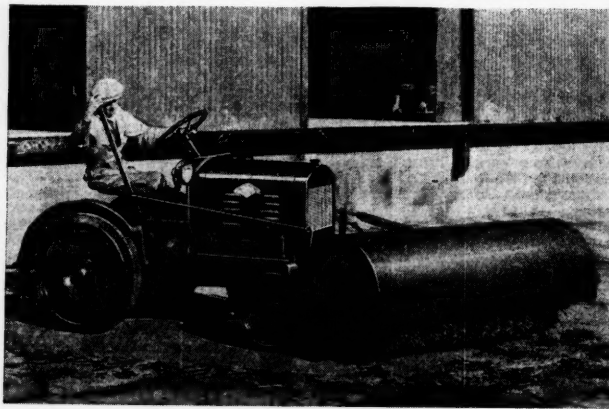
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SERVE INDUSTRY
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WRIGHT MANUFACTURING COMPANY

BRIDGEPORT, CONNECTICUT

An Associate Company of the American Chain Company, Inc.



"Clarktor" Sweeper Broom 72" long, revolves 120 r.p.m., sweeps path 60" wide.

"Clarktor" Sweeper

Makes short work of a big job. A compact, sturdy, mobile mechanical broom for cleaning warehouses, factory aisles, platforms, terminals, docks, piers. Does the work of an army of brooms—better, quicker, at lower cost. Self-starter, generator, head and tail lights—fit for night operation. One installation saved its entire cost in the first 60 days it operated.



The Clark Tractor Co.

Battle Creek, Mich.

Attach this
ADVERTISEMENT
to your inquiry

a greater crushing plant

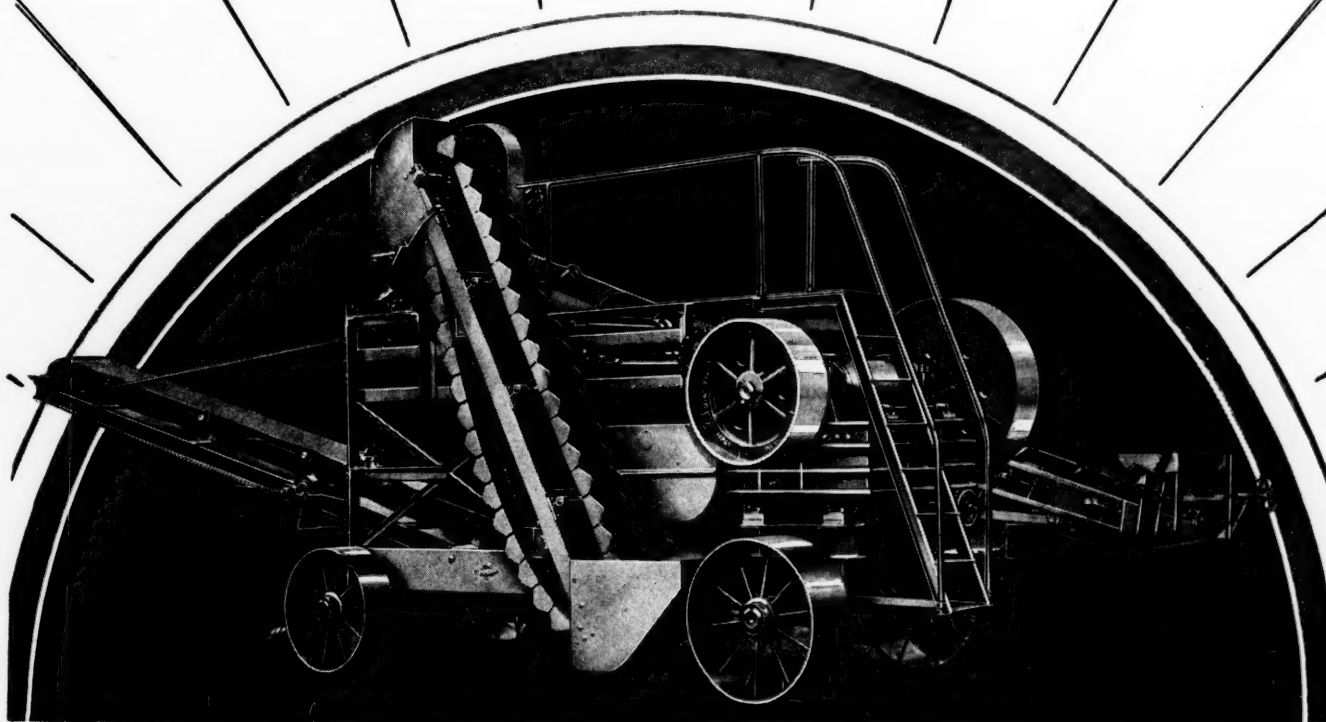
The No. 60 Crushing and Screening Plant is built for large capacity

—that's why two crushers are used, a Diamond Timken roller bearing jaw crusher and a set of rolls for reduction.

But the power required is no more because roller bearings in the crusher and all vital points in the plant compensate for the extra crusher.

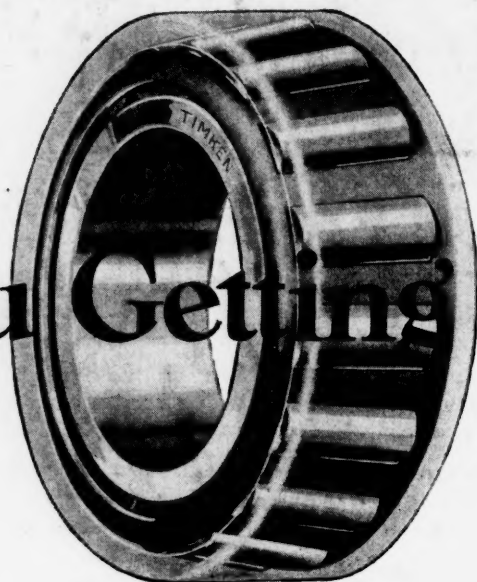
Manufacturers of roller bearing crushers and all equipment for the production of sand and gravel

Dealers in all states. Write for 1931 catalogue.



Diamond Iron Works, Inc.
MINNEAPOLIS, MINN. U. S. A.

Are You Getting Ready?



Good times are coming in the South

Regardless of present conditions, this country will sooner or later enjoy the greatest business expansion ever known.

When the great production race starts, it will be factory against factory, and contractor against contractor as never before. Then those who are equipped with the most thoroughly modernized machinery will be the ones to profit most fully.

With this thought in mind, foresighted manufacturers and contractors are checking over every piece of equipment now—asking themselves many questions about it.

Is this power unit obsolescent to the point where it should be replaced with a modern unit of greater capacity?

Has that power shovel depreciated to a degree that is likely to cause serious

delays in the construction schedule?

Is this pump costing too much for power, lubrication and maintenance?

When the answer is "yes", it will pay you well to do some writing off and to make immediate replacements.

In making such replacements, remember that Timken Tapered Roller Bearings are revolutionizing operating and production costs in all types of factory and construction equipment.

And remember that these savings are so great that it is not uncommon for Timken-equipped machinery to pay for itself in a few months.

Now is the time to put these substantial economies into effect.

When business shifts into high, will you be ready to hold the pace?

THE TIMKEN ROLLER BEARING COMPANY, CANTON, OHIO

TIMKEN *Tapered Roller* **BEARINGS**

